

THE SIXTY-THIRD

ANNUAL REPORT

UPON THE

HEALTH OF LEICESTER,

For the Year 1911,

ВΥ

C. KILLICK MILLARD, M.D., D.Sc.,

Medical Officer of Health; Medical Superintendent of the Borough Isolation Hospital; Public Analyst for the Borough.

INCLUDING

REPORT on the INFANTS' MILK DEPOT.

REPORT on the ISOLATION HOSPITAL.

REPORT of the PUBLIC ANALYST.

REPORT of the CHIEF INSPECTOR.

REPORT of the FOOD INSPECTORS.

REPORT of the HEALTH VISITORS.

REPORT of the REFUSE DISPOSAL DEPARTMENT.

REPORT of the STREET CLEANSING DEPARTMENT.

TH LEICESTER:
GI LAMER, PRINTER, ALBION STREET.

By the order of the Local Government Board, dated March 23, 1891, Article 18, Section 14, it is prescribed that the Medical Officer of Health shall "prepare an Annual Report, to be " made to the end of December in each year, comprising "a summary of the action taken during the year for pre-" venting the spread of disease, and an account of the "sanitary state of his district generally at the end of "the year. The report shall also contain an account of the " inquiries which he has made as to conditions injurious to "health existing in his district, and of the proceedings in "which he has taken part or advised under the Public "Health Act, 1875, so far as such proceedings relate to those conditions; and also on account of the supervision "exercised by him, or on his advice, for sanitary purposes "over places and honses that the Sanitary Authorities have "power to regulate, with the nature and results of any "proceedings which may have been so required and taken "in respect of the same during the year. The report shall "also record the action taken by him, or on his advice. "during the year, in regard to offensive trades, to dairies, "cowsheds, and milkshops, and factories and workshops." "The report shall also contain tabular statements (on forms "to be supplied by the Local Government Board, or to the "like effect) of the sickness and mortality within the district. " classified according to diseases, ages, and localities."

By the instructions of the Local Government Board, the Medical Officer of Health must send a copy of the Annual Report to the Local Government Board, and one to the County Council.

By the Factory and Workshop Act of 1901, the Medical Officer is required to specifically report on the administration of that Act in workshops and workplaces in his district, and to send a copy of the report to the Secretary. State.

BOROUGH OF LEICESTER.

SANITARY COMMITTEE.

Chairman:

ALDERMAN AVENDLEY, J.P.

Vice = Chairman:

Alderman LAKIN.

ALD. BANTON, J.P.

Mr. BRYAN

ALD. CHAPLIN, J.P.

Mr. CROSSLEY, J.P.

.. FOLWELL

HAND

.. HEATH

HILL

HOLMES

Mr. HUDSON

.. PERKINS

.. J. W. SMITH

.. C. SQUIRE

.. SUTTON

... WALKER

WILFORD

YEARBY

The Committee meet every Friday in the Committee Room, Town Hall, at 3-30 p.m.

The Committee is divided into the following Sub-Committees:

Isolation Hospital and Zymotic Diseases (Chairman, Ald. Lakim). Cleansing and Refuse Disposal (Chairman, Mr. Walker).

Sanitary Inspection and Accounts (Chairman, Mr. Yearby). Dispensary and Milk Depot

SANITARY STAFF.

Chief Sanitary Inspector: Francis Braley, 1

Food Inspectors:

M. Tyldesley, 1 F. Sowerbutts, 1, 2

District Inspectors:

T. Bent. 1

H. Stokes, J. J. H. Gray, J.

A. G. Stanyon. T. Hines.

Health Visitors:

Mrs. Hartshorn.

Miss. J. Whyte. 1, 3

Miss J. S. Whyte, 3, 4

Clerks:

T. P. Poynor.

C. H. Langran, G. B. Neale.

Disinfecting Men:

G. GLOVER.

C. Gregory.

Matron of Isolation Hospital:

Miss E Davies, 4

Manageress of the Infants' Milk Depot:

Mrs. Stanion. 1

Medical Officer to Inbereutosis Dispensary and Assistant Medical Officer of Health:

J. Bell Ferguson, M.B., D.P.H.

Resident Medical Officer to Isolation Hospital and Assistant Medical Officer of Health:

F. CUTHBERT WALKER, M.D., D.P.H.

Medical Officer of Health and Public Analyst:

C. Killick Millard, M.D., D.Sc.

Holds Cortificate of the Royal Sanitary Institute.

² Holds Special Food Certificate, Inspectors Examination Board

[.] Holds Certificate of Central Madwives' Board

⁺ Holds Certificate as fully Trained Nurse

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SUMMARY OF STATISTICS

FOR THE YEAR 1911.

BOROUGH OF LEICESTER.

Population (est	imatec Pon	l) at Mid dation at C	Vent 191			227,634
Marriages						1891
Marriage-rate						16:61
Births						5.222
Birth rate						22:91
Deaths (correct	ed	* * *				3,051
Death-rate						1:3:4()
Infant Mortalit	(Der	1.000 Bir	thsi]:}():()
Zymotic-rate						1:41
Diarrheea rate						.7:)
Respiratory-rat				+ N		1:76
Cancer-rate						1:():}
Tuberculosis-ra				* * *		1.55
Phthisis-rate						1:26
•						
Area of Borong	th (in a	(c).c>)				8,586
Number of per	sons p	er aere at	Census.	1911		26.4
Number of per	sons p	er Tenem	ent at Ce	nsus, 1911		4.41
Number of Inl	iabii ed	l Tenemei	nis, Censi	is. 1911		51.481
Number of Em	ptv H	ouses, Jul	ly. 1911			1,751
Rateable value	Nove	mber 1st.	. 1911)		£1	.104.111
Rates in the £.	×					
Poor	Rate	* * *		1	[()	
Gener	al Dis	trict Rate	b		0 1	
	Borot	igh exter	ided in ye	ar 1891.	-	
			٠			

77 GREAT TOWNS.

	For C			
		Average.		
Birth-rate			 25.5	
Death rate			 15.5	
Intant Mortality	* 4		1 1	

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To the Chairman and Members of the Sanitary Committee.

Gentlemin.

I have the honour to present to you my Annual Report on the Health of Leicester for the year 1911. The retrospect is again a favourable one, and although the death-rate for the year, viz.: 1340, was slightly higher than in 1910, when it was the lowest on record, it is actually lower than in any year prior to 1910, if allowance be made for the error in the estimation of the population revealed by the last Census.

In order that a true comparison with previous years may be made, the population of the Borough has been re-estimated for the nine years, 1902-1910, on the basis of the last Census, and the various rates based on population have been re-calculated.

In comparison with other great towns, Leicester continues to hold a very enviable position. Out of the 37 great provincial boroughs with populations of over 100,000 only one—viz., Coventry—had a lower death-rate in 1911 than Leicester. This is excluding boroughs in the Metropolitan Outer Ring, such as Croydon, which are really sub crbs of the Metropolis.

The number of births in Leicester continues to fall, and the birth-rate was again the lowest on record.

Although the past sammer was exceptionally hot and dry, the infantile mortality was not increased so much as neight have been expected; and though the deaths from epidemic, diarrham were more numerous than in the last few years, they did not approach the high figures often reached in the past.

The number of cases of typhoid fever was a little higher than usual, owing to an outbreak of this disease which occurred at the end of the year, and which was traced to the consumption of mussels, Diphtheria, unfortunately, was also more prevalent, and was of a server type,

During the year a Municipal Tuberculosis Dispensary was established in Leicester and is doing excellent work.

The Municipal Infants' Milk Depôt continues to prosper. The number of infants on the books during the year was the highest hitherto recorded, indicating its sustained popularity, whilst the receipts during the financial year ending March, 1912, more than balanced the payments; so that the Milk Depôt may now be regarded as self-supporting.

Owing to the impetus given by the Housing. Town Planning, &c., Act, increased attention has been given to the condition of houses in the Bovough, and the number of houses condemned as unfit for habitation was considerably greater than in previous years. The standard of repairs and improvements now required to be carried out in houses which have been condemned will, I believe, have an excellent effect.

I have pleasure in acknowledging the assistance and loyal vo-operation of the Assistant Medical Officers of Health, Chief Inspector Braley, the Matron at the Hospital, and the various other members of the Sanitary and Hospital Staffs.

I have also to thank the members of the Sanitary Committee for the consideration they have always extended to me, and I wish specially to mention the Chairman, Ald. T. Windley, whose unrivalled experience in the work of the Sanitary Committee, of which he has been Chairman for nearly 36 years, places him in an unique position for directing and inspiring the work of the Health Department.

Lam. Gentlemen.

Your obedient servant,

C. Killick Melland

Medical Officer of Health.

Medical Officer of Health's Report

FOR THE YEAR 1911.

PART I.

STATISTICAL.

SITUATION AND SOIL.

The County Borough of Leicester lies in Lat. 52 deg., 38 Min. North, and Long. I degree, 8 Min. West, in the North of the County of Leicestershire, on the banks of the River Soar, a tributary of the Trent. The subsoil is for the most part upper kenper red and grey marks and boulder clay, except in the Belgrave and Western districts where considerable areas of gravel and sand are found.

AREA AND ALTITUDE.

The Borough has an area of 8,586 acres, extending about four miles from East to West, and about four miles from North to South. The area built upon extends about three miles each way. The altitude varies from about 165 feet at Belgrave to 305 feet at Stoneygate above mean sea level at Liverpool.

POPULATION.

During the year under review the Census (1911) has been taken, and Leicester's true position as regards population has been revealed.

As was anticipated, the population of the Borough was found to have been over-estimated. The Census, taken at the end of March, showed the population to be 227,242, and this estimated at the middle of the year became 227,634 against the old estimate of 252,530, a deficiency of 25,288.

This difference in population, of course, makes a difference in the death-rate and in the other rates based on population. It has been necessary, therefore, to revise the population figures for the years in the past intercensal period, and to recalculate the principal statistics for those years. The revised figures for the death-rate are given below (p. 17) and will also be found with the other revised rates in Tables 9 and 14.

NATURAL INCREASE IN POPULATION.

The natural increase in population, or excess of births over deaths, in 1911, was 2171.

GROWTH OF LEICESTER IN PAST DECADES.

The following figures, showing the population of the Borough at each Census during the past century, indicate the increase which has taken place. It will be seen that during the past intercensal period the rate of increase has been much lower than in any previous period.

Year.		Population	1.	Increase.	Perce	entage Incre	ase.
1801		17,005					
1811		23,146		6,141		364	
1821		31,036		7,890		34.1	
1831		38,904	• • •	7,868		25:3	
	Bot	NDARIES	Exten	њер ву 18	336,		
1841		50,806		11,902	. • •	30.6	
1851		60,584		9,778		19:2	
1861		68,052		7,468		12:3	
1871		95,220		27.168		39.9	
1881		122,376	h 4 e	27,156		28:5	
	Bot	NDARIES	Exter	DED IN B	891.		
1891		174,624		52,248		42.7	
1901		211,579		36,955		21.2	
1911*		227 242		15.663			

^{*} From Preliminary Census Report,

INHABITED TENEMENTS.

The number of inhabited tenements at the Census, 4911, was 51,481, and the number of persons per tenement was 441.

The number of empty houses on July 1st, 1911, was 1.751 a decrease on the previous year of 513. Of these empties 66 per cent, were cottages, and a large proportion of these are old and of an inferior class.

RATEABLE VALUE AND RATES.

The Rateable Value of the Parish on November 1st, 1911, was:

		£	5.	d.
Buildings	 	1,091,332	4	9
Agricultural Land	 	12,779	-1	()
	į	1,104,111		9

The Poor Rates for the year, 1911-12, were 1.10 in the £.

The General District Rates for the year, 1911-12, were:—

Portion of Borough liable to School expenses, 5.9½ in the £.

Braumstone portion of Saint Mary (not liable to Elementary Education expenses), 4,4 in the £.

MARRIAGES.

The number of marriages registered in the Borough in 1911 was 1891, equal to a *Marriage-rate* of 1661.

The number of marriages was 45 less than in the previous year.

MARRIAGE-RATE IN LEICESTER.

	(Revised	Figures.)	
1905	 		 17:26
1906	 	* * *	 15:16
1907	 		 16:67
1908	 		 16:03
1909	 		 15.75
1910	 		 17:12
1911			16:61

By the courtesy of the Superintendent Registrar (Alderman T. Smith, J.P.) I am able to give the following figures:—

MARRIAGES IN LEICESTER IN 1911.

			At Established Churches.	At Nonconformist Churches and at Registry Office.	Total.
First Qu	arter		129	121	250
Second	,,		395	22()	615
Third			316	2():}	519
Fourth	* 7	* * *	297	210	507
			1137	7.54	1891

BIRTHS.

The number of births registered in Leicester during 1911 was 5222, of which 2667 were males, and 2555 were females. This number is 158 less than in the previous year, and is the lowest figure reached since the actual number of births began to decrease nine years ago. The maximum was reached in 1902, when the number of births was 6313. Since then the number of births has fallen continuously, the figures for 1911 being 1091 less than it was nine years before, a decrease of 17·2 per cent.

The decrease is all the more striking when it is remembered that during the same period the population has increased by 13,000.

The continued shortage of births in Leicester is having its inevitable effect in reducing the number of children at school age, and the Education Committee are beginning to be seriously affected by this, as the grant received from the Government is based upon the number of scholars attending. But although the attendance is getting smaller, the same number of schools has to be maintained: indeed, owing to the shifting of the population into the outskirts, some new schools have been necessary.

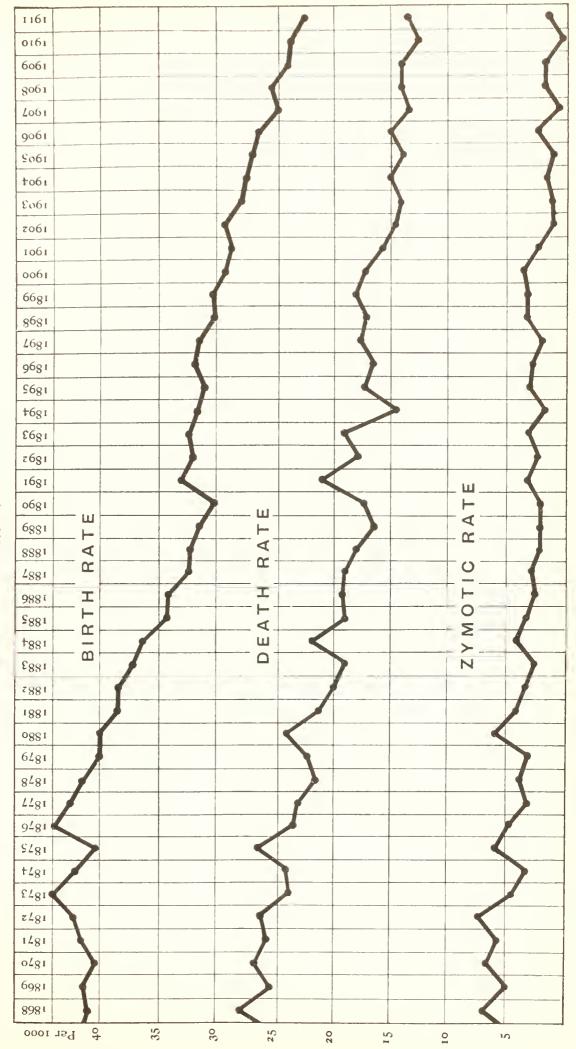
The Birth-rate was 22.94 per 1000 of the estimated population, compared with 23.79 for the previous year (recalculated on the revised population). The rate was again the lowest on record. The birth-rate has been falling for so many years in Leicester that this statement may seem monotonous.

The birth-rate in the 77 Great Towns in 1911 was 25.5, so that Leicester continues to be below the average.

DIAGRAM 1.

SHOWING DECREASE IN BIRTH-RATE, DEATH-RATE, AND ZYMOTIC-RATE IN LEICESTER.

1868 - 1911.



The figures from which this Chart is drawn will be found on Table 9.



The question of the causes of the decreasing birth-rate has been considered in previous Annual Reports. There is no room for doubt that the chief factor is the volitional reduction in the size of families. Large families i.e., families of six or eight and upwards—are becoming quite exceptional in all ranks of society, except the very lowest. The slum dweller still reproduces at a rate far in excess of any other class. This lavish creation of lite, however, is largely neutralised by the excessive mortality amongst infants and young children which still exists amongst this class. Thus, the average birth-rate last year in Newton, St. Margaret's, Wyggeston and Latimer Wards was 28.6, and the average infant mortality was 184. As a contrast, the average birth-rate in Westcotes, Spinney Hill and Knighton was only 19.2, whilst the infant mortality was only 63.1.

If we exclude the births of those infants who fail to survive the first year of life, the "surviving" birth-rates in the two contrasted districts become 23:4 and 18:0 respectively, and if we were to deduct those who died during childhood, the difference would be still further diminished. This consideration goes a long way towards allaying the fear that the falling birth-rate of the superior classes, and the comparatively high birth-rate of the very lowest class, threatens the quality of the race.

In discussing the question of the falling birth-rate it should always be remembered that the phenomenon is not peculiar to this country or even to Europe. It is being manifested, in varying degree, in almost every civilized country in all parts of the globe, and may in fact be regarded as a world-wide movement.

Illegitimate Births.—These numbered 240, or 4:5 per cent. of the total births.

Still-births.—The number of still-births occurring can only be arrived at indirectly, the registration of still-births not being obligatory. The number of burials of still-born infants during the year at the Borough Cemeteries was as follows:—

Gilroes Cemetery	 4 4 1	 127
Welford Road Cemetery	 	 68
Belgrave Cemetery	 	 8
		-
'1' 4 1		-2010

This is equivalent to 3.8 per cent, of the live births.

DEATHS.

During the year 1911 a new scheme for securing greater accuracy in the death records of different localities has been introduced by the Registrar General whereby the deaths of persons occurring when absent from their usual place of residence are transferred to their proper districts. Hitherto, these deaths have been excluded from the returns of the district in which they occurred, and where, therefore, they were registered; but although individual medical officers of health have made praiseworthy efforts to transfer such deaths to their proper districts there has been no universal system for doing this, and no guarantee that they would be included in the returns of the district to which they were transferred, consequently it happened that most of these deaths were not included in any local returns. Now, however, this is changed; all these "transferable" deaths are collected by the Registrar General, and transmitted to the medical officer of health for the districts to which they appear to belong. They are then investigated by the medical officer of health, and if found to be correct he notifies the Registrar General of his willingness to include them in the local returns.

In Leicester a correction of this kind has always been made as regards institutional deaths, but the new system has involved the inclusion, for 1911, of 38 other deaths of residents of Leicester occurring in various parts of the country. In spite of this, however, the total number of corrected* deaths was only 3051 (males 1520, females 1531). This figure was 245 more than in the previous year, 1910, but the latter was an abnormally favourable year, with quite the lowest death-rate on record. Excluding 1910, the number of deaths for 1911 compares very favourably with previous years, and in only one other year—viz., in 1907—

^{*} The corrections were as follows:—97 deaths of non-residents occurring at the Leicester Infirmary, 1 death of a non-resident occurring at the Home Hospital. 3 deaths occurring at the Nursing Home, Victoria Road, 1 death at the Home, Stoneygate, and 8 deaths at private houses have been deducted from the deaths registered in Leicester; whilst 28 deaths of patients at the Borough Isolation Hospital and 296 deaths at the Leicester Poor Law Infirmary have been added, these institutions being outside the Borough. 38 transferable deaths occurring away from Leicester have also been added.

has the figure been lower, in spite of the fact that the population is increasing. The record for the past year must, therefore, be regarded as very satisfactory, and especially so in view of the very low death-rates which have now prevailed in Leicester for several years.

Death-rate.—The death-rate, or proportion of deaths per 1000 population, was 13:40. As already mentioned, the fact that the population of the Borough was found by the Census to have been over-estimated to the extent of 24,896 has necessitated the death-rates for the past nine years, since the previous Census, being recalculated on the basis of the revised population. The old and revised figures are shown in the following Table:—

		Old E	stimate.	Revised Estimate.		
-	Year.	Population as estimated from 1901 Census.	Death-rate as calculated upon old estimate of population.	Population as re-estimated in light of 1911 Census.	Death-rate as re-calculated upon new estimate of population.	
	1902	216,389	14.65	213,974	14.82	
	1903	220,272	13:91	215,461	14.22	
	1904	224,186	14.56	216,958	15.05	
	1905	228,132	13:42	218.464	14.()1	
	1906	232.111	14:39	219,980	1548	
	1907	236,124	12.65	221,508	13.48	
	1908	240,172	12.98	223,046	13:98	
	1909	244,255	12:90	224,595	14.03	
	t910	248,374	11:29	226,154	12:40	

From these figures it will be seen that the death-rate during 1911, although ±0 per 1000 higher than in 1910, was lower than in any previous year.

STATISTICS OF OTHER GREAT PROVINCIAL TOWNS.

One of the most satisfactory features as regards the health statistics of Leicester for a number of years past is the favourable

comparison which it has been possible to draw between Leicester and other great provincial towns. The statistics for the year 1911 prove to be no exception. The comparison is restricted, as in past years, to those towns with populations over 100,000, but boroughs in the London Onter Ring, e.g., Croydon, East and West Ham, Tottenham, &c., several of which have death-rates lower than Leicester, are excluded as being really snburbs, and largely containing a selected population. Several additional provincial towns were found at the recent Census to have attained to a population of 100,000, viz., Coventry, Halifax, Middlesbrough, South Shields, Swansea, Stockport, and these are, therefore, included for the first time. One the other hand, Wolverhampton has been omitted, as the population has fallen below 100,000.

Death-rate.—There are now 37 great provincial towns with populations of over 100,000, and it is a remarkable and gratifying fact that in only one of these, viz., in Coventry (one of our new competitors), was the death-rate for 1911 lower than in Leicester.

The figures, as recorded by the Registrar General, for the great provincial towns with the lowest death-rates are as follows:

Town.	Population.		th-rate, 19	911.
Coventry	 107,307		13:1	
Leicester	 227,632		13.3	
Brighton	 131,441		13.8	
Cardiff	 182,734		14.()	
Norwich	 121.677		14.1	
Portsmonth	 232,253		14:1	
Derby	 123,637		14:3	

By way of contrast may be quoted a few towns at the other end of the scale: --

Town.			Death-rate, 191		
Oldham				17:6	
Sunderland				17:9	
Burnley		* 1 1		18:0	
Middlesbrough				19.4	
Stoke-upon-Tre	nt			19:9	
Liverpool				2()·()	

Infant Mortality. Another favourable comparison can be drawn as regards infant mortality, and this is specially satisfactory, because at one time, as is well known. Leicester bore a bad reputation in this respect. During 1911 only six out of the 37 towns had a lower infant mortality than Leicester.

Zymotic Diseases. As regards searlet fever, in only six of the 37 towns was the mortality from this lower than in Leicester. This indicates how very mild the prevailing type of searlet fever in Leicester was. As regards diphtheria, only four towns: as regards typhoid, nine towns: and as regards diarrhoa and enteritis, eight towns had a lower mortality than Leicester.

In only seven of the 37 towns was the birth-rate lower than in Leicester.

It may be observed that these are the Registrar General's figures, and are based on the results of the recent Census.

The figures for all the great provincial towns will be found in Table 7.

INFANT MORTALITY.

The number of deaths of infants under one year of age was 679 (males 406, females 273). This represents an *Infant Mortality*, per 1,000 births, of 1300.

Although this is a slightly higher figure than in the three years immediately preceding, it is much below the average of earlier years, as shown below, and in view of the fact that the summer of 1911 was an exceptionally hot one, and, therefore, conducive to infant mortality, the result must be looked upon as very satisfactory. Certainly, in no previous hot summer has so low an infant mortality been reached.

It is not unreasonable to believe that the efforts which have been made in recent years to combat infant mortality—i.e., the visitation of births, the establishment of the Infants' Milk Depôt, abolition of pail closets, improved scavenging, &c.—are bearing fruit.

INFANT MORTALITY IN LEICESTER.

Period.			Average.
1892 - 1896	• • •		 194.4
1897 - 1901			 189.2
1902-1906			 1584
1907 —1910 (4 y	ears)		 128.2
1911 (ver	y hot sun	imer)	 130.0

DEATHS OF INFANTS AT SUCCESSIVE AGES DURING FIRST YEAR OF LIFE.

In Table 37 particulars are given of the causes of deaths at different age-periods in weeks and months during the first year of life. Of the 679 deaths, 125, or 18 per cent., occurred in the first week: 223, or 32 per cent., occurred in the first month: and 341, or 50 per cent., in the first three months. Of the deaths in the first month of life, the principal causes were premature births (96), debility and marasnus (59), and convulsions (12).

DEATHS AMONGST ILLEGITIMATE INFANTS.

There were 46 deaths of illegitimate infants, equal to a death-rate of 191 per 1,000 illegitimate births, compared with a rate of 130 for all infants. The contrast which always exists between the mortality of legitimate and illegitimate infants is a striking proof of the preventableness of infant mortality.

ZYMOTIC MORTALITY.

There were 322 deaths from the seven principal zymotic diseases, viz.:—

Smallpox	•••		 Nil
Measles			 7.1
Searlet Fever			 9
Diphtheria			 21
Whooping Cor	ığlı		 43
Enteric Fever			 11
Diarrhoea		• • •	 167
	Total		322

The Zymotic Death-rate was 141, against 0.69 in 4910, the increase being due to the larger number of deaths from diarrhea and measles.

CANCER.

The deaths from cancer and other forms of malignant disease in Leicester in 1911 mumbered 238, of which 110 were in males and 128 in females, the ratio being as 100 to 116.

As compared with 20 years ago the mortality from cancer has seriously increased in Leicester: but during the past decade, fortunately, the increase has been only slight.

Thus, in the three years, 1902-4, the cancer deaths amounted to 60 per cent, of the total deaths, whilst in the last three years, 1909-11, the percentage was 67.

There has, however, been some increase in the proportion of male deaths, and a slight decrease in the female deaths, though the latter are still much the more immerous.

A few years ago the Committee of the Liverpool Cancer Research deemed it their duty, in view of the prevalence of cancer, to call attention to what could be done to combat the disease, and their remarks may be quoted here:—

"No specific cure for cancer is yet known, but, as with con"sumption, the earlier the treatment is commenced the greater
"is the chance for its success. Unfortunately, a large number of
"people put off seeking the advice of their doctor instead of going
"to him immediately they notice anything wrong.

"It may be pointed out that certain organs are more often "affected than others. In men, cancer of the gullet, stomach, "and intestines: in women, cancer of the breast and womb, "account for about two-thirds of all cases of cancer. There are, "of course, many other only slight ailments of these organs.

"The Committee feel that they cannot too strongly state "how important it is that the disease should be recognized at "the earliest possible moment. This recognition can only be "attained by the patient going to his or her doctor for examination at the very beginning of illness,"

WARD STATISTICS.

(See Tables 1-7.)

DEATH-RATES.

(Table 3.)

As is almost always the case, Knighton Ward comes out with the lowest rate, viz., only 7.4 per 1000 population. The second place of honour is secured by Spinney Hill with 9.3, whilst Aylestone comes third with 10.2, followed by the Abbey with 10.5. West Humberstone, which for several years has had a very low rate, is not quite so favourable as usual, having a rate of 13.2.

At the other end of the scale we find Wyggeston Ward, 180 per 1,000; Newton, 17:8; and St. Margaret's, 16:3. Although the contrast between the Wards in Leicester with the highest and lowest rates is still painfully great, there is cause for gratification that in the worst Ward in Leicester the figure is lower than the rate for some entire towns. Thus, the death-rate for 1911 was, in Liverpool, 20:0 per 1000 population.

BIRTH-RATES.

(Table 3.)

As usual, De Montfort Ward has a birth-rate (14·2) much below any other Ward. Possible causes for this have been suggested in previous Reports. Happily, the birth-rate in De Montfort was last year slightly greater than the death-rate. In previous years it has actually been less. Next in order to De Montfort comes Charnwood, 16·1: and Wycliffe, 17·8.

The highest birth-rates were in Wyggeston, 32:0 per 1.000: St. Margaret's, 27:9: Latimer, 27:6: and Newton, 27:0. Although these rates seem high nowadays, it should be remembered that not so many years ago the average birth-rate for the whole town stood at a much higher figure.

The Ward with the greatest difference between birth-rate and death-rate was West Humberstone, (which also had this distinction last year), the birth-rate being 27:7, and the death-rate only 13:2. In this Ward the number of births exceeded the deaths by 281.

INFANT MORTALITY.

(Table 3.)

There were only eight deaths in Knighton in children under one year of age, equivalent to an infant mortality of only 29 per 1,000 births. This is, of course, an extremely low figure, and nunch below its own average for the past five years, which was 56. Such low figures in districts where the environment is favourable prove conclusively that infant deaths are essentially preventable. Next to Knighton we have Spinney Hill, 66; Aylestone, 76; and Belgrave, 88. At the other extreme we have Newton with 195; St. Margaret's, 188; and Latimer, 186.

Considering the hot summer these figures, high though they are, are not so excessive as might have been anticipated. Thus in Newton Ward in 1908 the infant mortality was 239, and in 1909 it was as much as 243.

ZYMOTIC MORTALITY.

(Table 5.)

Here again there is a very striking contrast between certain Wards, such as, on the one hand, Knighton, De Montfort, Aylestone and Wycliffe; and the less favoured ones such as Newton, St. Margaret's and Wyggeston, where it was as much as five times as great. The diarrheea-rate was highest in Wyggeston-16; Latimer, 1:3; West Humberstone, 1:1; The Castle, 1:0; and St. Margaret's, 1:0. Knighton Ward, on the other hand, entirely escaped, whilst Spinney Hill, Westcotes and Belgrave only had a rate of 0:3 per 1000.

PHTHISIS-RATE.

Newton Ward had the highest rate (2.8), West Humberstone coming second (2.1), and The Castle, Westcotes and St. Martin's ziying" for third place with 1.8 per 1,000 population. The powest rates were in Knighton, 0.4; Belgrave and Aylestone, 0.7; Spinney Hill, De Montfort and The Abbey, 0.8.

AGE-DISTRIBUTION AND CAUSES OF DEATH.

The age-distribution and principal causes of death in each Ward are shown in Table 6.

WARD AVERAGES.

(Table 4.)

Obviously Ward statistics are more valuable if the average for several years be contrasted. This is done in Table 4.

The Wards with the lowest and highest average rates for the five years, 1907-1911, were as follows:—

DEATH-RATE.

Lowest	•		Highes	т.	
Knighton		7:6	Wyggeston		18:3
Westcotes		9.2	Newton		18:2
Spinney Hill		9.8	Wycliffe	• • •	15.8
Aylestone		10.4	St. Margaret's		15.5
		DIDOTI	To A Circles		

BIRTH-RATE.

Lowest		HIGHEST.	
De Montfort	 12:4	Wyggeston	30.7
Knighton	 18:0	West Humberstone	27:9
Wycliffe	 18.5	Newton	27.2
Charnwood	 18:7	Latimer	27.1

INFANT MORTALITY.

Lowest.		HIGHEST.	
Knighton	 56	Newton	 194
Spinney Hill	 90	Wyggeston	 193
Westcotes	 100	St. Martin's	 178
Aylestone	 104	St. Margaret's .	 177

Speaking generally, the least healthy parts of the Borough, judged by the mortality figures, are the districts at the centre of the town: whilst the most healthy districts are on the outskirts. There is an intermediate area represented by such wards as Charnwood, De Montfort. The Castle, and Latimer.

We are justified, therefore, in enconraging the natural tendency of the population to leave the centre of the town and migrate to the outskirts, where there is less congestion and more breathing space. The closing of old cottage property in the centre, to be replaced by business premises and factories, is, therefore, in the right direction; whilst the provision of increased tramway facilities is obviously to be commended as having a beneficent influence on the public health,

PART II.

ZYMOTIC DISEASES.

SMALLPOX.

(For Statistics of this Disease see Table 24 at end of Report.)

During the past year the country has continued very free from this disease, the only outbreak of much note being that in the East End of London in the early part of the year, which was referred to in the last Annual Report.

It is now five years since the Leicester Smallpox Hospital was last used, or six years if the single case in 1906 be excepted. Such a long spell of immunity must necessarily raise hopes that smallpox, as has been the case with some other diseases, is being gradually exterminated, and that serious epidemics have become a thing of the past. It would be a mistake, however, to be too sangnine about this very desirable consummation. A similar immunity has been enjoyed by the town before, to be followed by a widespread epidemic. Thus, no single case of smallpox occurred in Leicester in the five years, 1896-1900. Then, in 1901, four cases occurred; in 1902, 18 cases, and in the two years, 1903 and 1904, no less than 727.

It is true that in some respects the country is better prepared than ever before to deal energetically with this disease whenever it does appear, and although smallpox is specially amenable to public health measures of prevention there are certain factors in connection with its mode of spreading which still baffle us and make it sometimes very difficult to control. This was well exemplified during the epidemic of 1903 in the sudden outburst of cases in April, when after a fortnight's hill, during which almost the only cases were a few "contacts" under observation, 156 cases occurred in the space of four weeks without any satisfactory clue being obtained as to the cause. The fact, however, that such a serious outbreak was quickly got under control was certainly a triumph for the so-called "Leicester Method" of dealing with smallpox. During the last of the four

weeks referred to 48 cases had occurred. In the following weeks the numbers were 22, 14, 10, 4, 2 and 1. Such an experience can only be regarded with mixed feelings—of concern that such an ontbreak could be possible, and of gratification that the town emerged from the ordeal with unexpected success.

I have ventured to refer to this experience because many of those who criticise Leicester's policy as regards compulsory vaccination appear to be strangely ignorant that the "Leicester Method" has ever undergone such a supreme test. The "powder barrel" theory, which was so much in vogue in the early days, is not quite dead even yet.

VACCINATION.

The following figures show the number of vaccinations registered and the "exemptions" granted during each quarter of the year:—

,	Pablic.	Private.	Total Vaccinations.	Exemptions Granted.
First Quarter	70	81	151	700
Second Quarter	53	72	125	712
Third Quarter	31	73	1()4	779
Fourth Quarter	33	62	95	77:3
Total for year 1911	187	288	47.5	2964

In the previous year the figures were:—Total vaccinations, 564; public, 181; private, 383; exemptions, 2,335.

The vaccinations in 1911 amounted to 9.0 per cent, of the births registered, whilst the exemptions amounted to 56.7 per cent.

Vaccination in Leicester continues to decrease, and the figures recorded for 1911 were the lowest during the past decade.

During the past 14 years, whilst 82.113 children have been born, only 11,415 vaccinations, or 13:9 per cent. of the births, have been registered. If we assume that about ten per cent. of the children born died unvaccinated, the proportion of the population of Leicester under 15 years of age who have been vaccinated is probably only about 15 per cent., leaving 85 per cent. unvaccinated.

SCARLET FEVER.

(Cases, 1.309; Deaths, 9; Case mortality, 0.7 per cent.)

Although the number of fresh cases of scarlet fever notified during 1911 was rather more numerons than in the previous year, numbering 1,309 against 1,013, the type of the disease was extremely mild. The total number of deaths was only 9, equivalent to a fatality of 0.7 per cent, of the cases notified. Only twice before in the records of the Borough has such a low fatality been recorded. In the previous five years the deaths have averaged 33.

The relative prevalence of the disease during the year was as follows:

WS:			Cases.
First Quarter	 		209
Second Quarter	 	• • •	312
Third Quarter	 		150
Fourth Quarter	 		638

During the third quarter the notifications fell off very much, consequently the admissions to Hospital were comparatively few, and it was possible to close two of the pavilions at the Isolation Hospital. It was during this time that the experiment was tried of admitting "pre-tubercular" cases to the Hospital, these being treated in one of the empty blocks which had, of course been previously disinfected.

Although it is sometimes suggested that scarlet fever has been more prevalent in the Borough than was formerly the case, this is not really true if a sufficient number of years be taken and allowance be made for the increase in the population of the Borough. The average attack-rate per 50,000 population during the past decade was considerably below what it was in the previous one, in spite of the fact that prior to the year 1900 only first cases in a house were notified.

SCARLET FEVER-AVERAGE ATTACK-RATE.

Period.		tck-rate per 0 Population.
1880 - 89*	 	277
1890 99*	 	*)*)*)
1900 1909	 	25:3
1910=1911 (two years)	 	245

^{*} Only first cases in a house notified prior to 1900.

It is probable that the explanation of the impression that scarlet fever has been exceptionally prevalent during recent years is to be found in the fact that during the two years, 1903-4, scarlet fever diminished very remarkably, and the number of cases notified was very greatly below the average. Curiously, those years happened to be smallpox years; but, though it was a very fortunate conjunction. I am not prepared to say it was more than a coincidence. Still, when the disease resumed its normal proportions it was perhaps naturally regarded as an increased prevalence. The actual figures for each year since 1877 will be found in Table 25. A study of this Table will show how enormously the mortality caused by this disease has declined.

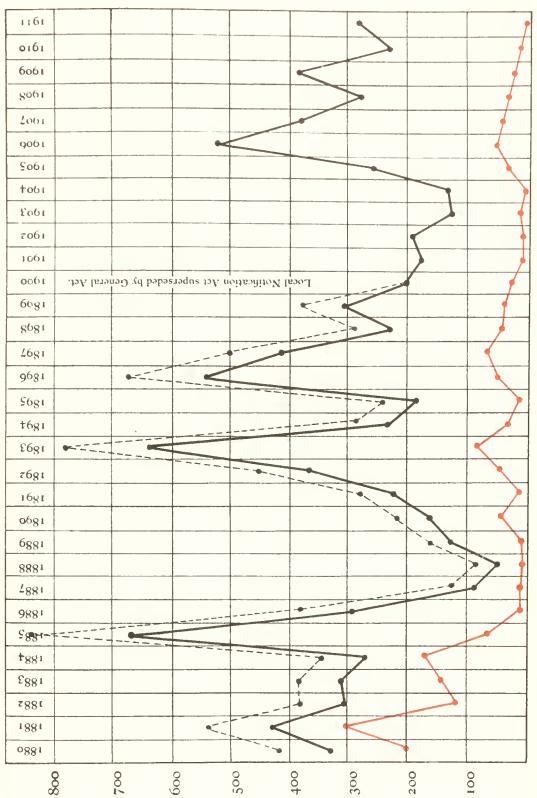
For example, whilst last year only nine deaths were caused by scarlet fever in a population of 227,000, there were no less than 119 deaths in 1880, followed by 184 deaths in 1881, although at that time the population was 100,000 less than it is now.

As regards the effects of hospital isolation, it must be admitted that it produces little effect so far as reducing the number of cases is concerned. The justification of this measure must be found rather in the great boon it undoubtedly confers upon the public. It is only when an attempt is made to reduce the proportion of cases admitted to hospital that we realise how much the public appreciate this great convenience. There would, undoubtedly, be much dissatisfaction and no little hardship if the facilities which have now been provided so long were withdrawn. At the same time it is only reasonable, seeing that scarlet fever is now such a mild disease compared with what it was in former years, to reduce the expense involved by treatment in hospital by cutting down the time of detention. There is good reason to believe that the prolonged stay in hospital at one time enforced, (6-8 weeks) is no longer necessary.

As a matter of fact, we have in Leicester for a number of years abandoned the orthodox six weeks minimum stay in hospital, and many of our cases are discharged after four or five weeks; nor have we had reason to think that this shortening of the period of detention has had any material effect in increasing the number of cases which carry out infection. A certain

סטוונדבו וביבונ ווי בבוטבטובו, וששיוחו.

Notifications per 50,000 population (BLACK curve). Deaths per 200,000 ,, (RED curve).



N.B. Prior to 1900 only first (primary) cases in a house were notifiable.

The dotted curve represents an addition of one fourth for secondary cases not notified prior to 1900.

The figures from which Diagram is drawn will be found in Table 25.



number of such cases will always occur, no matter how long the patients are detained.

THE EUCALYPTUS INUNCTION TREATMENT.

In last year's Report reference was made to the method of treating searlet fever by means of immetion of the whole surface of the body with encalyptus oil, which, it was claimed, cut short the disease and prevented the spread of infection. It was stated that having given the treatment a trial we were unable to satisfy ourselves that these claims could be justified. Further experience was obtained at the Isolation Hospital during the past year, but this only confirmed us in the opinion that the encalyptus immetion treatment was not of sufficient value to justify us in continuing it.

SECONDARY CASES.

The term "secondary" cases implies cases which follow upon a previous case in the same house. During 1911, out of the total of 1,309 cases reported, 1,101 were primary and 208 were secondary.

"INFECTING" CASES AND "RETURN" CASES.

(Table 26.)

During 1911 there were 820 patients discharged from the Hospital, and in 47 instances the return home was followed (within six weeks) by one or more further cases. There were thus 47 'infecting" cases, and these gave rise to 55 "return" cases. The percentage of "infecting" or of primary "return" cases was 5.7, calculated upon the number of patients discharged.

SECOND ATTACKS OF SCARLET FEVER.

During the year there were 18 instances amongst the cases notified in which there was a definite history of the patient having had the disease before. In ten of these the patient had been removed to hospital, and in five or six of the cases treated at home it was stated that the patient had desquamated. In the case of one of the patients it was stated to be the third attack, he having had searlet fever four years ago at home, and again a year ago when he was treated in hospital. The intervals between the first and second attacks varied from eight months to eight years one to three years being the most usual interval.

DIPHTHERIA.

(Cases, 246; Deaths, 21; Case Mortality, 85 per cent.)

Diphtheria was more prevalent than has been the case for several years, 246 cases being notified, compared with 114 in the previous year. The increase occurred almost entirely in the last quarter of the year. Westcotes Ward suffered rather more heavily than other wards, having six fatal cases: whilst no fatal case occurred in St. Margaret's, Wyggeston, De Montfort, West Humberstone or Aylestone. Out of the 21 fatal cases, 17 were in children below the age of five.

176 of the cases, or 71 per cent., were removed to hospital, including a number of argent cases calling for immediate operative treatment.

As regards the etiology of the cases, this was usually very obscure. 216 cases, or 87 per cent., occurred as single cases in a house, no other member of the family being attacked. As has been noted in previous years, there was no special incidence upon the poorest districts or those in which the houses were least sanitary. On the other hand it was frequently found to occur in modern and apparently well-built houses. As mentioned above, Westcotes Ward, a well-to-do district, had six fatal cases: whilst St. Margaret's and Wyggeston, two of the poorest districts, had none. The drains in infected houses were tested as a routing practice, and m a certain number, as in almost all property, defects of one kind or another were found, principally escapes at the gully traps in the yard-a common weak point. I am not inclined, however, to regard these defects, where they existed, as an important factor, but in all cases the owners were at once called upon to make them good.

For a number of years. Leicester has suffered very little from diphtheria, much less, indeed, than most towns. Even with the increased mortality from the disease in 1911. Leicester compares very favourably. Thus, the mortality from diphtheria in Leicester in 1911 was 9 per 100,000 population, and the average for the previous six years was 6.5.—In 77 principal towns of the country the average for 1911 was 17.

TYPHOID OR ENTERIC FEVER.

(Cases, 47) Deaths, 11) Case Mortality, 23/1 per cent.

For many years the number of cases of typhoid fever in Leicester has been decreasing in a way which is very remarkable, and, of course, most satisfactory. As has been pointed out in previous reports, much, if not most, of this decline must be attributed to improvement in sanitation, more especially to the abolition of pail closets. The figures for 1914, however, were less satisfactory than usual, 47 cases being reported, against 36 in the previous year. The increase is accounted for by the outbreak referred to below. 37 of the cases were removed to the Borough Isolation Hospital.

TYPHOID FEVER AND MUSSELS.

Towards the end of the year 1911 (early in December) an outbreak of typhoid fever occurred in the Borough, which was clearly traced to the consumption of mussels. The facts were as follows: During October and November, 1911, only six cases of typhoid fever had been reported, and in only one of these was there a history of having eaten mussels. From the 1st December, 1911, to the 4th January, 1912 twenty-four notifications of this disease were received. One of these may be excluded as not being a case of typhoid fever. Of the remaining twenty-three there was a clear history of the patient having recently eaten mussels in seventeen instances (probably in eighteen). Of these seventeen "mussel" cases, the patients appear to have eaten the mussels raw in at least nine instances. Many of the cases were very severe, and five of them proved fatal. In several instances it was impossible to trace the source of the mussels, as they had been purchased from casual hawkers whose names and addresses were not known; but in ten instances it was possible to ascertain the wholesale merchant, and through him to ascertain where the mussels came from. In all these cases it was discovered that the mussels were consigned from Lympstone in Devonshire, on the river Exc. (In one instance mussels were also obtained from Ireland.) Approximately about half the mussels brought to Leicester market come from Lympstone, and the other half from various other sources, principally from Teignmouth.

The following facts relating to the Lympstone layings are taken from a report on shellfish by the Fishmongers' Company :--On October 14th, 1903, an inspector of the Fishmongers' Company took a sample of mussels from a consignment sent to the London market, stated to have come from the Star Cross and Lympstone layings, and had them examined bacteriologically by Professor Klein. All the mussels were found to be polluted. On September 9th, 1907, another sample of mussels from Lympstone was taken and submitted to Professor Klein, who found the mussels decidedly unclean. The inspector of the Fishmongers' Company then visited the mussel grounds in the river Exe, which are situated within a couple of miles of Topsham, and extend down the river to Star Cross. He took with him the Sanitary Inspector of Lympstone. The report states that "It was evident that certain of the mussel beds were utterly unfit for preparing imissels for market, owing to their proximity to sewer outfalls. The places in close proximity to the mussel beds, which undoubtedly contaminated them, were found to be Topsham. Lympstone, and Star Cross respectively."

Further samples of mussels taken at various points along the "back of the ridge" opposite Lympstone on September 28th, 1907, were found to be decidedly unclean. Experiments were then made to determine whether placing the mussels in clean water for a time prior to their being put on the market would result in a sort of natural purification taking place, and the results of these experiments appear to show that a considerable measure of purification could in this way be obtained. Some difficulty, however, appears to have been experienced in finding a really unpolluted area in which the polluted mussels could be relaid to purify themselves.

On 26th November, 1907, the Fishmongers' Company wrote to several mussel merchants at Lympstone, and neighbouring places, that unless the mussels were relaid in purer surroundings they were not in a fit state for consumption.

From the above extracts from the report of the Fishmongers' Company it is quite evident that the mussels derived from Lympstone and neighbourhood were liable to pollution.

This question of danger from polluted shell-fish is a very big one, and it is impossible for Local Anthorities individually to

DIAGRAM II.

ENTERIC FEVER IN LEICESTER.

Notification per 10,000 Population. Showing marked Decrease following Abolition of Pail-Closets.

1161						2 2
1010						.0
6061						2
8001						1 3
4061						5
9061					-	7.0
\$061						3,1
tobt						37,
1903						7.7
2061						×.
1061	:700:-00	21 61801 241	1 202			5.0
0061	stasolO-n	o to Wate Stansor	Converte			9,
6681	stosol		Over			0 1-
8681						ž.
4681				7		X.
9631						-
\$681						13.0
†6g1				7		11.5
8681		<				
2691					>	2
1681						2
0681				4		2
6881						1- 5
8881		•				
Z881						1.0
9881				>		1 9
5881						13.5
t981					7	
1883						6.2
1882						15
1881						-

See Table 28.



adequately protect themselves, especially as it is impossible to tell without bacteriological examination whether shell fish is contaminated or not.

Government action is clearly called for, and the proper course would seem to be that no shell-fish should be sold except from beds which are subject to systematic official inspection and duly certified as free from liability to pollution.

Returning to the outbreak in Leicester, as soon as the probable source of infection became apparent, steps were taken to stop the supply of mussels coming to Leicester from the localities under suspicion. The wholesale fish merchants were visited, and the facts laid before them. Subsequently a formal letter was sent to them by the Medical Officer of Health, at the direction of the Sanitary Committee. They readily agreed to discontinue getting mussels coming from the Exe or Teign.

A poster warning the public against cating mussels, unless thoroughly, cooked was also issued. In consequence of this poster the consumption of mussels, either raw or cooked, fell off very greatly for a time. The outbreak of typhoid quickly ceased although, as might be expected, owing to the long incubation period of the disease, and the difficulty of diagnosing it in its very early stages, some cases continued to occur after the supply of mussels had been cut off. In practically all of such cases as did occur, however, there was a history of having caten mussels some weeks before.

An intimation of the outbreak was sent to the Medical Officer of Health for the County of Devon, who investigated the condition of the suspected "layings," and reported thereon to the Devonshire County Conneil. The following is an extract from his report:—"We have made investigations of the layings "of mussels in different parts of the River Exe, and had "bacteriological examinations made of the shell-fish and the "water in which they are bathed. These results showed that "the mussels and the river contain large quantities of microorganisms found in sewage, and we are of opinion that owing to "the large amount of sewage entering the estnary, mussels taken from any part might be the means of causing disease, especially if eaten raw.

As regards the condition of the river Teign, the report stated that this had also been examined, and was also found to be dangerously polluted. "In the face of the above conditions, the "mussel industry in these two rivers, giving employment to "150 men, with an annual taking of about £2000, must in time "practically cease for want of markets unless the Board of "Agriculture come to the rescue of these fishermen."

It should be mentioned that the Fishmongers Company, which has special powers as regards the sale of fish in London, prohibited the sale of mussels from Lympstone in the London market some years ago, and this prohibition has remained in force ever since.

DIARRHŒA.

(Deaths, 167.)

Although the number of fatal cases of diarrhea was higher than has been the case for the past few years, the figure is not unsatisfactory in view of the fact that last summer was exceptionally hot, and when compared with the figures for hot summers in the past. The summer of 1911 was hotter, judged by the mean earth temperature, than any summer since 1899, twelve years ago, when the deaths from diarrhea numbered 292, or nearly twice as many. This proves that a real improvement is being effected quite independent of climatic or meteorological conditions, and it is reasonable to attribute this to the various public health measures that have been and are being carried out in the town.

Allowance must no doubt be made for the fact that the infant population in Leicester, amongst whom diarrhea deaths almost entirely occur, is declining. Accordingly, in Table 30, in which are given the diarrhea and enteritis statistics for past years, the rate is worked out as a proportion of the births instead of the general population. From Table 30 the following figures are taken:—

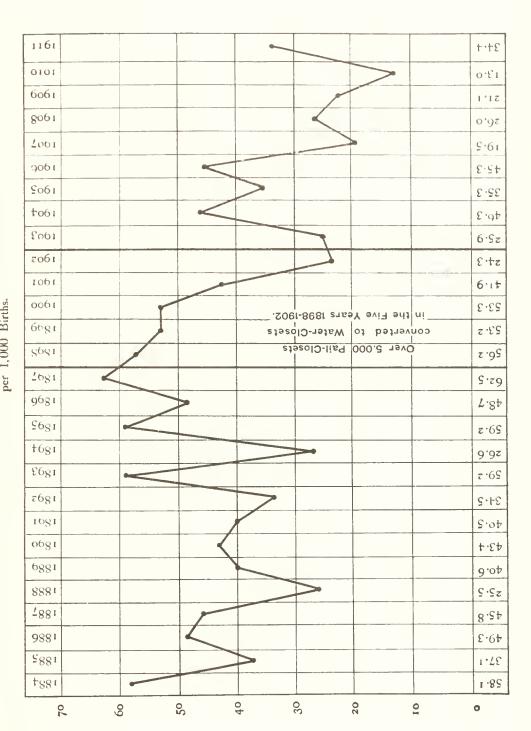
Average Annual

H :		Avera	ige Annuar	
		Nu	mber of	
Quinquenuia!		Diamhes	a and Enter	itis
Period.			is per 1000	
T CT IV/CT			Births.	
1894 - 1898		 	59	
1899 1903		 	46	
1904 - 1908	* * *	 	40	
1909 - 1911 (3 y	ears)	 	21	

The real improvement which is taking place is obvious.

DIARRHOEA AND ENTERITIS DEATHS UNDER ONE YEAR OF AGE.

per 1,000 Births. DIAGRAM IV.



the early part of the year under review, the town having occu-

THE SEA-WATER TREATMENT OF DIARRH(EA.

During the month of September, an interesting experiment was made in connection with the sea-water treatment of infantile diarrhea. Considerable attention had been drawn to this treatment in the public press owing to the activity of the Quinton Polyclinic in Poland-street Soho. This institution, named after the originator of the treatment, M. Quinton, of Paris, had recently been opened in London for the special purpose of applying the sea-water treatment which was advocated for a number of other diseases besides diarrhea. After hearing a report by the Medical Officer of Health as to what he had seen when visiting the Quinton Polyclinic it was decided by the Sanitary Committee to give this method of treatment a trial, and arrangements were accordingly made for applying it to a limited number of cases at the Infants' Milk Depôt, where a room was equipped for the purpose. The treatment consists in injecting a considerable quantity of specially prepared sea-water ("marine plasma") subcutaneously. The injections were given by the Medical Officer of Health personally. Altogether some ten cases of infantile diarrhoa were treated, most of these being sent by medical men. The number of cases was too small to draw any final conclusion as to the value of the treatment, but it may be stated that several cases appeared to improve very rapidly and remarkably; some improved slowly; whilst in three cases there was no real improvement, and the cases ultimately proved fatal. Two or three additional cases discontinued the treatment after one or two injections. As regards the rapid improvement in the general condition which certainly follows upon the injections of sea-water in some cases, it is claimed that very striking results can also be obtained by the injection of ordinary salt and water, and in view of the great draining of fluids from the tissues of the body as the result of severe diarrhea it is easy to understand why this should be. Whether the results obtained by sea-water injections are superior to those injections obtained by ordinary saline injections. I am unable to SH.V.,

MEASLES.

(Deaths, 71.)

Measles assumed epidemic proportions in the Borough in the early part of the year under review, the town having been very free from it during 1910. Although very wide spread and causing much regrettable loss of life, the number of deaths, 71, was fortunately considerably less than in the two last epidemic years, 1908 and 1909, when 167 and 109 deaths were caused by it. As usual, the deaths occurred almost entirely in very young children. In only six cases were the victims over five years of age, whilst 19 were below 12 months of age. The epidemic lasted till the middle of the year, and during the latter half of the year the town was free from the disease. During the epidemic the Sanitary Committee issued a poster warning the public against the danger of measles.

WHOOPING COUGH.

(Deaths, 43.)

Whooping cough, like measles, is essentially a disease of young children. Of the 43 fatal cases all but two occurred in children below five years of age, and the majority were under two years.

PUERPERAL FEVER.

(Cases, 19: Deaths, 7.)

Both the cases notified and the deaths registered from puerperal fever in 1911 were rather more numerous than usual.

In addition to the deaths from puerperal fever, there were 14 deaths due to other causes connected with child-birth. Many of the latter must be looked upon as quite unavoidable.

During the six years, 1906-11, there have been 33.112 births registered in the Borough – i.e., this number of children have been born alive. In addition, there have been a considerable number of still-births, which at present do not require to be registered. During the same period the total number of deaths from purporal fever has been 22, and there have been 76 deaths from other causes connected with child-birth, a total of 98. In other words, one woman has lost her life for every 337 children born alive.

Of course, in addition to the women who have lost their lives, a much larger number have suffered serious, in some cases life-long, injury to their health.

TUBERCULOSIS.

The number of deaths from all forms of tuberculosis in 1911 was 354, or four less than in the previous year. The *Tuberculosis-rate* was 455 per 4,000 of the population. After correcting the rates of the last five years in the light of the recent Census this becomes the lowest rate since 1894.

PHTHISIS.

Pulmonary Tuberentosis: Consumption.

Phthisis, the most important of the tubercular diseases, was responsible for 288 deaths in 1914, or seven more than in the previous year. The phthisis-rate was 126 per 1,000 population. Details as to the number of deaths from phthisis and other forms of tuberculosis are given in Table 32. The following figures for the past eight years indicate some improvement:—

Year.				 ns from Phthisis ,000 Population
1904		1)(**		 1.03
1905				 1:32
1906				 1:54
1907				 1:24
1908	* *			 F28
1909				 1.29
1910				 1:24
1911			* + *	 1:26

AGE AND SEX.

Of the 288 deaths from phthisis, 166 were in males and 122 in females. It is usually the case that the deaths of males exceed those of females, the latter sex not being so subject to the disease. The age distribution is given in Table 33. Fifty-five per cent, of the deaths were in persons between the ages of 20 and 40 years, just the prime of life.

OCCUPATION.

As usual, a large proportion of the persons dying from phthisis were employed in the shoc trade, the figures for 1911 being, as regards males, 30 per cent. Until the detailed figures of the 1911 Census are available, showing the proportion of the male population employed in the shoe trade, it is not possible to determine how far there is an undue incidence upon this particular trade.

NOTIFICATION.

It will be recollected that in 1908 the Local Government Board issued an order making pulmonary tuberculosis a compulsorry notifiable disease in the case of all Poor Law patients.

In March, 1911, the Board issued a further order (Public Health (Tuberculosis) Regulations, 1911) making notification of pulmonary tuberculosis compulsory in the case of all patients attending hospitals or similar institutions.

In November, 1911, they issued a further order, to take effect on January 1st, 1912, making notification compulsory in all cases of pulmonary tuberculosis.

The second order, issued in March of the past year, resulted in a considerable increase in the number of cases notified, and the last order will, of course, still further increase the number.

The new departure is to be welcomed as being calculated to help forward the campaign against consumption. It is now several years since the Leicester Corporation petitioned the Local Government Board for powers to make phthisis compulsorily notifiable in Leicester, but at that time the Board did not think the time was ripe for such a step, and declined to grant the necessary sanction.

A letter calling attention to the new regulations was sent at the end of the year to each medical man practising in the Borough by the Medical Officer of Health, together with a book of notification forms.

The number of fresh cases notified during the year was as follows:—

Hospital and Dispensary	cases	 157
Poor Law cases		 170
Private Practice cases		 187
Total		514

With the new regulations in force, under which all cases of pulmonary tuberculosis have to be notified, it will shortly be

possible to estimate the number of cases of consumption that will have to be dealt with under the National Insurance Act.

SANATORIUM TREATMENT OF CONSUMPTIVES.

The number of consumptive patients admitted to the Groby Road Hospital for treatment was 186, compared with 419 in the previous year. This is the largest number treated in any one year, the increase being due partly to the larger number of beds which it was possible to reserve for this disease in the early part of the year, and partly to the policy of keeping patients for shorter periods than previously, which has been adopted since tacilities have been provided for continuing treatment after patients have left the Hospital. Full particulars as to the practice in Leicester of admitting patients to the Borough Isolation Hospital were given in the Report for 1910.

"PRETUBERCULAR" CASES.

During the summer of 1911 a new departure was made in the way of admitting to the Borough Isolation Hospital a number of delicate children—61 in all—who were apparently predisposed to tuberculosis. This was rendered possible by the small number of cases of scarlet fever in hospital during the summer months, which enabled one ward-block to be set apart for this purpose. The so-called "pre-tubercular" children ranged from about 6 to 14 years of age—all were ailing and mable to attend school—many had not been to school for months. In a number of cases there was a family history of consumption, either a parent or brother or sister having died of the disease. Many of the children had chronic coughs and were puny and emaciated. In most of the cases the home conditions were unsatisfactory, either from poverty, lack of proper attention, or other causes.

Whilst it may not be strictly scientific to group these cases together into one class under the designation of "pre-tubercular," it is certainly convenient from the practical point of view.

The experiment was begun in May and continued through the summer months. About 25 patients were under treatment at a time, and the total number dealt with was 61. Most of the cases were sent by the School Medical Officer, Dr. Allan Warner,

As many as possible of the patients slept out on the ward verandahs in the open air, and all the children spent the greater part of the day in the open air. A considerable portion of the grounds was specially reserved for them; and swings, see-saw, sand heaps, &c., were provided. The glorious weather of the summer of 1911 was, of course, greatly in their favour. immediate result was, in most cases, very satisfactory, children put on weight is some cases very rapidly and improved wonderfully in appearance. Two of the cases, however, made no improvement and proved fatal. The average time the cases remained in hospital was about eight weeks. As was to be expected, many of the children soon relapsed on returning to their homes and the old unfavourable environment; but six months later. Dr. Warner, who investigated the cases, reported that 20 were back at school and four were at work. Of the remainder, 28 were at home, five were in the Poor Law Infirmary, one had emigrated, and one had died.

On the whole, the result must be regarded as satisfactory. The children were for a short time placed in a very favourable environment, with good food and abundance of fresh air, and some of them certainly derived permanent benefit.

THE MABLETHORPE OPEN-AIR SCHOOL.

A somewhat similar experiment was carried out during the past year by the Education Committee, who accepted an offer from the Leicester Smmner Camp Committee to place at their disposal the Camp premises at Mablethorpe, after the ordinary season had closed, for use as an open-air school. Forty boys and girls, selected by the School Medical Officer as being delicate and predisposed to disease, were sent to Mablethorpe at the expense of the Education Committee, and kept there for a couple of months, special teachers being provided, and lessons being conducted out of doors on the recognised lines of open-air schools. Judging from Dr. Warner's report, the results obtained appear to have been highly satisfactory, and the Education Committee are certainly to be congratulated on their new departure, which it is to be hoped they will be able to repeat during the present year.

TUBERCULOSIS DISPENSARY.

The principal forward move during the year in the local campaign against consumption was the opening of a municipal tuberculosis dispensary.

During the summer the Chairman of the Sanitary Committee (Ald. Windley) and the Medical Officer of Health, at the request of the Sanitary Committee, visited several existing tuberculosis dispensaries, including institutions known as tuberculin dispensaries, and subsequently they presented a full report on the question. As the result of this report the Sanitary Committee unanimously resolved to establish a municipal dispensary in Leicester, and this was opened on October 14th.

Premises belonging to the Corporation, situated in St. Nicholas Square, and formerly used as a retail shop, were adapted for the purpose. The front room was converted into a well-lighted and ventilated waiting-room, with a portion partitioned off into dressing-rooms; whilst the back room was made into a consulting-room. One room upstairs was fitted up as an office, and the remainder of the premises are for the present imused.

The method and procedure adopted in carrying on the dispensary are a combination of those known as the "Edinburgh dispensary system," recommended by Dr. Phillip, with those of the "tuberculin dispensary," as carried on by Dr. Camac Wilkinson. The preventive aspect of the work is emphasised, and visits are paid to the homes of cases by both the dispensary doctor and murse to seek out unrecognised cases, and, if possible, prevent the spread of the disease; but the treatment employed is by means of tuberculin instead of by drugs. This is practically the procedure adopted at the Portsmouth "tuberculin dispensary." The term "tuberculin dispensary." however, is open to some objection, hence the original name of "tuberculosis dispensary," as introduced by Dr. Phillip, at Edinburgh, is probably the best one to employ.

The equipment of the dispensary was comparatively simple. In addition to ordinary furniture, such as tables and chairs, a weighing machine, laryngoscope, and the necessary syringes, stoppered bottles, &c., for giving tuberculin injections, with a supply of specially printed forms and a vertical filing cabinet, very

little was required. The staff consists of a medical officer, who has also been appointed Assistant Medical Officer of Health, a trained nurse, and a man (part time) who comes morning and evening to keep the premises clean and in order.

Prior to the opening of the dispensary, a considerable number of consumptive patients who had begun the tuberculin treatment at the Borough Sanatorium at Groby Road, and who wished to continue it, were being treated by the Medical Officer of Health at the Town Hall. When the dispensary was opened in October, these patients, to the number of over 60, were transferred to the dispensary.

It was found quite immecessary to advertise the institution in any way, but a notification of the opening, and of the hours for seeing new cases, was sent to each medical practitioner in the Borough by the Medical Officer of Health. In this letter the objects of the new institution were explained, and the co-operation of the medical men invited. It is pleasant to be able to record that this co-operation has been willingly granted, and a large proportion of the new cases applying have been sent by their own medical attendants.

At the Leicester dispensary we observe one precaution which should. I think, always be taken. Whenever a patient presents himself for examination, and it is found that he is already under a medical man, but has not been sent by the latter, we make it a rule to notify the medical man, and enquire if he has any objection to the patient receiving treatment at the dispensary. It would be a wise step, and would check what is known as "hospital abuse," if a similar precaution were taken at the outpatient department of all general hospitals.

During the first three months the dispensary was open 128 new patients applied for treatment, but 51 of these had to be refused for one reason or another as musuitable, chiefly because the disease was in too advanced a stage to offer a reasonable prospect of success. The remainder were either sent to Groby Road Sanatorium for preliminary treatment or taken on at once for treatment as out-patients at the dispensary. As the patients left the sanatorium they were admitted as patients at the dispensary, and the tuberculin treatment continued. In this way the

number of patients under treatment had risen to 130 by the end of the three months.

The dispensary is worked as follows: Four mornings a week (Monday, Tuesday, Wednesday and Friday, from 9/30 a.m. to 1 p.m.) are devoted to administering the tuberculin treatment. On two afternoons (Monday and Wednesday, 3/to 5/p.m.) new patients are examined; and during the remainder of the week the Medical Officer is examining old patients by appointment, paying visits in the town, or directing the work of the Health Visitors in connection with consumption.

THE NATIONAL INSURANCE ACT AND TUBERCULOSIS.

The great Measure providing for National Insurance against sickness has now become an accomplished fact, and is expected to come into operation, as regards contributions, in July of the present year. The benefits, other than sanatorium benefit, will come into operation six months later. From the public health point of view the Act is calculated to have the most far reaching consequences for good

BENEFITS.

The "benefits" conferred on insured persons under the Act are (Section 86) as follows:—

- (a) Medical treatment and attendance, including provision of medicines, we, (" Medical Benefit.")
- (b) Treatment in sanatoria or other institutions or otherwise when suffering from tuberculosis ("Sanatorium Benefit.")
- (c) Periodical payments, for a period not exceeding 26 weeks, whilst rendered incapable of work by some specific disease, or by bodily or mental disablement ("Sickness Benefit,")
- (d) In the case of the disease or disablement continuing after the determination of "Sickness Benefit," periodical payments so long as so rendered incapable of work ("Disablement Benefit,")
- (a) Payment in the case of the confinement of the wife of an insured person, or of any other person who is an insured person, of a sum of thirty shillings ("Maternity Benefit,")
 - (f) Certain further benefits ("Additional Benefit.")

Sickness benefit, disablement benefit and maternity benefit are to be administered by and through an approved society when the insured persons are members of such a society, and in other cases by and through the Insurance Committees. Medical and sanatorium benefits are, in all cases, to be administered by and through the Insurance Committees.

SANATORIUM BENEFITS.

The provisions which most closely concern local authorities are those relating to sanatorium benefit. Sect. 16 provides:— For the purpose of administering sanatorium benefit, Insurance Committees shall make arrangements, to the satisfaction of the Insurance Commissioners. (a) with a view to providing treatment for insured persons suffering from tuberculosis . . . in sanatoria or other institutions with persons or local authorities (other than Poor Law authorities) having the management of sanatoria or other institutions approved by the Local Government Board; and (b) with a view to providing treatment for such persons otherwise than in sanatoria or other institutions with persons and local authorities (other than Poor Law authorities) undertaking such treatment in a manner approved by the Local Government Board.

The sums available per annum for sanatorium benefit amount to one shilling and fourpenee for each insured person.

The Insurance Committee for a county or county borough has power to extend sanatorium benefit to the dependants of insured persons; and if the money available for sanatorium benefit is insufficient, the Treasury and the council of the county or borough have power to make good the deficiency.

It is evident from the above outline that the National Insurance Act will necessitate much further provision for the institutional treatment of tuberculosis than at present exists, and where, as in Leicester, the local anthority are already treating the disease, it seems the proper and most advantageous course that such further provision as is necessary should be made by them. No doubt, as soon as the Insurance Committee for Leicester is appointed they will approach the Corporation with a view to an arrangement being made.

The expression "treatment in sanatoria or other institutions," evidently contemplates treatment at a tuberenlosis dispensary as an alternative to, or as supplementing, sanatorium treatment. Fortunately, in Leicester, a tuberenlosis dispensary already exists, and it could, without difficulty, be extended. As regards the beds reserved for the treatment of consumption at the Isolation Hospital, although this accommodation has answered its purpose very well in the past, much further provision will certainly have to be made to meet the new requirements of the Act. Fortunately, an excellent site, the property of the Corporation, exists adjoining the Hospital grounds, upon which a sanatorium block to accommodate, say 50 patients, could soon be creeted, and it could easily be administered from the Administrative Block of the Hospital. There would be obvious convenience and economy in such an arrangement.



PART III.

GENERAL.

ADMINISTRATION OF FACTORY AND WORKSHOPS ACT, 1901.

In connection with Factories, Workshops, Workplaces, and Home Work.

Report of the Medical Officer of Health for the year 1911 for the County Borough of Leicester.

1.—Inspection of Factories, Workshops and Workplaces, Including Inspections made by Sanitary Inspectors of Nuisances.

			N			
Premises. (1)			Inspections. (2)	Written Notices. (3)	Prosecutions.	
Factories			27	20	None	
Workshops			616	75	None	
Workplaces			None	None	None	
(other than Outwor	kers prei	nises)				
Total			643	95	None	

2.—Defects found in Factories, Workshops and Workplaces.

	Nu	Number		
Particulars. $(1)'$	Found. (2)	Remedied (3)	Referred to H.M. Inspector. (4)	of Prosecu- tions,
Nuisances under the Public Health Acts: Want of Cleanliness		-,,-		
Want of Cleanuness Want of Ventilation		37 · 8	None	None
Overcrowding		None		
Other Nuisances	$=\frac{7}{4}()$	•)•)		13
Sanitary Accommodation Insufficient Offences under the Factory	. 4	4		4.
and Workshop Act	None	None	9.5	• •
Total	. 119	104	None	None

3.—Home Work.

The number of lists received from employers was as follows:

	Twice	in the Year.	Once	in the Year.
		Outworkers		
Wearing Apparel (making)	64	1703	59	762

The number of addresses of out-workers received from other Conneils was 37.

The number of addresses of out-workers forwarded to other Conneils was 250.

No notices were served on occupiers as to keeping or sending lists, and there were no prosecutions.

The number of inspections of outworkers' premises was 139: there were no instances found of ont-work being done on unwholesome or infected premises.

4.—Registered Workshops.

The number of workshops on the Register is 842.

5.—Other Matters.

Matters notified to H.M. Inspector of	of Fact	ories	:
Failure to affix Abstract of Act			None
Action taken in matters referred	l by F	LM.	
Inspector:			
Notified by H.M. Inspector			19
Reports sent to Inspector			16
Other	• • •		Nil
Underground Bakehouses in use	at en	d of	
Vear			3

ADMINISTRATION OF THE MIDWIVES ACT, 1902.

The number of Certified Midwives practising in the Borough is now 31. A list of their names and addresses is given in Table 35. During the year one midwife died, two left the town, and three ceased to practice. On the other hand, two who had temporarily retired resumed practice, and there was one new comer. There is no reason to think that there is now, or that there is likely to be, any shortage of certified midwives in a large populous centre like Leicester. It is otherwise, however, with the sparsely populated country districts, where it is difficult

for a properly trained woman to earn an adequate livelihood, and apparently a shortage at present exists in the County of Leicester.

The midwives in the Borough have been twice inspected during the year. The inspection takes place at the Town Hall, and the midwives are given a choice of times so as to be able to suit their convenience as far as possible. They bring their case-books and midwifery bags, and on the whole these were found to be satisfactory. In addition to these formal inspections the Medical Officer of Health frequently has to send for individual midwives in consequence of special occurrences or complaints. Thus, a midwife is always interviewed in the event of a case of puerperal fever occurring in her practice, and the case is then inquired into.

Charge of negligence against a Midwife—Towards the end of the year, the Medical Officer of Health had to report adversely upon the practice of certified midwife, No. 231 and the Sanitary Committee directed that the facts should be reported to the Central Midwives' Board. The charge of negligence related to two distinct cases, and in both (one a case of severe hemorrhage, which proved fatal, and the other a case of retained membranes) there had been a failure on the midwife's part to advise that a medical man should be sent for as required by the rules. The Central Midwives' Board found the charges proven, and removed the midwife's name from the Roll. She was advanced in years, and in any case would have been obliged to retire soon on account of failing health and strength.

The number of Still-births notified by midwives was 63, and there were 69 intimations of having advised sending for medical help.

Voluntary Notification of Births.

The arrangement by which births attended by midwives are notified to the Medical Officer of Health continues to work fairly satisfactorily, and 2365 notifications were received. Books of special forms ready stamped, are supplied for the purpose.

THE NOTIFICATION OF BIRTHS ACT.

This Act has not been adopted in Leicester. The question has been several times discussed but a strong division of opinion exists on the Town Council as to the desirability of putting it in force. The medical men in the town strongly opposed the motion for its adoption, and it was suggested that if it were not carried the local medical men would be quite willing to notify robustarily any birth where they considered that the services of the Health Visitor would be advantageous. This they were invited to do. The number of cases thus notified during 1911 was 39.

DISINFECTION.

The method of disinfection for infected rooms at present carried out in Leicester is (a) by formaldehyde gas: (b) by spraying with solutions of formaldehyde. The number of houses or parts of houses disinfected during the year was 1963.

Steam Disinfecting Station.—This is situated at the Mill-Lane Destructor, being removed thence from the old fever hospital on Freake's Ground, after the hospital was closed. During the year, the following articles of bedding, clothing, &c., from 184 houses were removed to the Station and disinfected. viz.:—

Mattresses			 24
Beds			 240
Pillows and Bols	sters		 635
Blankets			 263
Counterpanes	,	• • •	 147
Sheets			 29
Other articles			 95
			4

The nature of the infection on account of which the above articles were disinfected, was:—

Scarlet	Fever (m	ursed at	home)	8	instances.
Enterie	Fever			25	
Phthisis	(chiefly	fatal cas	es)	151	11

In cases where the patient is promptly removed to Hospital, it is not the practice in Leicester to remove the bedding, &c., for steam disinfection, as this is not considered necessary.

CONVERSION OF PAIL CLOSETS TO WATER CARRIAGE.

Powers for the compulsory conversion of pail closets and privies to water closets were obtained by Leicester under a Provisional Order from the Local Government Board in 1896. The Corporation were authorized to contribute towards the expense of conversion, such contributions being made from a special loan. The main process of conversion occupied about tive years, 1898-1902, during which period 5349 closets were dealt with: but since then nearly 1000 of the more difficult cases, which were left till the last, were dealt with, bringing up the total closets converted to 6269. The total amount of the contributions was £14,576, or an average of £2 6s, per closet converted.

In no case was it necessary to actually take a case into court, and much credit attaches to Chief Inspector Braley, who carried out the negotiations with the property owners, and to whose tact and perseverance the successful carrying through of the scheme, at a cost considerably below what was estimated is certainly due.

From the public health point of view the result of the conversions has been very satisfactory, and there has been a marked decline in both enteric fever and diarrhoa. From the financial point of view it has also been satisfactory, as there is the saving on the cost of scavenging to be set off against the amount of the interest and sinking fund on the loan.

The total number of water closets in the Borough is now 61,132. The regulation flush is two gallons.

SMOKE PREVENTION.

Smoke observations are taken systematically, and whenever the amount of black smoke observed reaches a certain limit an informal caution is sent by the Chief Inspector. If the nuisance continues the offender is sent for by the Sanitary Committee and cautioned, the next step being a prosecution. It is very seldom, however that the latter course has to be taken.

During the year, 3459 observations were made by the inspectors, and 17 cautions were issued.

Fortimately, Leicester suffers less from the pollution of the atmosphere by smoke than most large manufacturing towns.

The general introduction of gas cooking steves, which are now to be found in almost every working-class home in Leicester, has greatly reduced the amount of smoke produced by domestic chimneys, especially in summer time. The smoke from domestic chimneys, owing to the great number of them, is really of greater importance as regards the pollution of the atmosphere than that from factory chimneys, although the latter, being much more conspienous, are often thought to be chiefly to blame. On the other hand it is only the latter that can be effectually dealt with under the Public Health Acts.

Useful work is being done in the Country by the Smoke Abatement League, formed two years ago, in educating public opinion, and a conference is to be held under the League's auspices this summer. It cannot be too strongly impressed upon manufacturers that a smoking chinney represents waste of fuel, and that, in the long run, it is in the true interest of the proprietor that furnaces should consume their own smoke.

HOUSING OF THE WORKING CLASSES.

During the past year, owing to the impetus given by the Housing. Town Planning, &c., Act. increased attention has been given to the condition of houses, and the number of houses condemned by the Medical Officer of Health was greater than in previous years.

Altogether the number was 104, but 37 of these were all the property of one owner.

The result of condemning was as follows:-

Repaired					35
Converted in	ito Fa	ctories or	Warehouses	•	20
Closed		• • •			28
Demolished					10
In abeyance		• • •			11
		Tota			104

In Leicester, special powers for closing houses are possessed under a Local Act (1868), the procedure under which is simpler than under the Housing, Town Planning, &c., Act. Closing Orders, therefore, are, as a rule, only made under the latter if it is thought probable that a Demolition Order will subsequently be required.

In addition to the houses condemned as unfit for habitation, 37 houses were certified by the Medical Officer of Health as filthy and unwholesome and ordered to be cleansed and purified under Section 120. Public Health Act. 1875.—420 other houses were cleansed by the owners upon receipt of informal notices from the Sauitary Juspectors.

WORK REQUIRED TO BE DONE TO RENDER HOUSES FIT FOR HABITATION.

In order that owners and house-agents may know the work required to be done to render a house fit for habitation after it has been condemned, the following statement was prepared and has been approved by the Sanitary Committee:—

> Housing, Town Planning, &c., Act. 1909. The Leicester Improvement, &c., Act. 1868.

Repairing Old Houses condemned as Unfit for Habitation.

Particulars of work required to be executed in order to render dwelling houses fit for habitation after Closing Orders have been made.

All roofs to be made thoroughly sound and weather-proof, gutters and sponting to be put in perfect order and renewed if necessary.

Walls to be repaired and made thoroughly sound. Perished brickwork to be made good. Re-pointing to be done where necessary. Bulged portions to be taken out and re-built.

A damp course to be provided to all house walls.

Dampness of walls to be remedied by appropriate measures.

Ventilation bricks to be provided beneath all wooden floors where practicable.

All old defective plaster on walls and ceilings to be backed off and the whole surface re-plastered.

Ceilings to be repaired and made thoroughly sound.

Red brick or quarry floors when damp and laid directly on the soil to be taken up, the earth removed, and the floor relaid on six inches of ashes or concrete. In every case the floor to be made smooth and even, all perished bricks to be replaced, and where necessary the whole floor to be relaid. Wooden floors and plaster floors to be made sound and repaired where necessary.

Every room in the house to be properly lighted and ventilated; where necessary new windows to be provided or existing windows enlarged. Every window to be capable of being opened and fixed open, and in the case of sash windows both the top and bottom sashes to be made to open. Broken panes to be reglazed, and where necessary sashes to be renewed and proper window sills provided.

All woodwork such as doors, windows, cupboards, skirtings, banister rails, &c., to be repaired and made thoroughly sound. All hinges and fastenings to be put in good condition and made to work properly. Staircases to be thoroughly sound and re-built or repaired as may be necessary.

Every living room to be provided with a suitable closed cupboard, and where there is no separate pantry the cupboard, if possible, to be ventilated into the outer air.

A sound firegrate of approved construction, comprising both oven and boiler, to be provided. Chimneys to be in good working order.

In the case of all houses with two or more down-stair rooms, the water to be brought inside the house and a proper sink and waste pipe provided.

The paving outside the house to be made thoroughly sound and relaid where necessary. Where no paving exists sufficient blue brick paving to be provided.

The water closet to be in thorough repair and the roof weather-proof: the w.c. to be properly lighted and ventilated, the finshing cistern in good order, and the woodwork and pan sound.

Drains to be tested and made thoroughly sound, and approved gulleys to be provided where necessary.

All old paint on woodwork, both inside and ontside the building to be re-painted two coats and burnt off if required. All old paper to be removed before re-papering. Walls to be re-papered or colour-washed.

Where outbuildings exist these are to be put into thorough repair. All outbuildings, entries, &c., to be lime or colour-washed where necessary.

Approved by the Sanitary Committee, February 23rd, 1912.

This statement is likely to be very useful in assisting us to get thorough repairs executed after a house been condemned.

In this connection I wish to record the great assistance rendered me by Chief Inspector Braley in interviewing owners of property, builders, &c., and seeing that the necessary work is carried out. His long experience and well-known tact are invaluable.

WATER SUPPLY.

The great event of the present year will be the completion of the great Derwent Valley Water Scheme, by means of which Leicester, in conjunction with Sheffield, Nottingham and Derby, will obtain an almost unlimited supply of pure soft water from the watershed of the River Derwent, in North Derbyshire. It is expected that the water will arrive about midsummer.

Owing to the prolonged dry weather during the past summer and autumn, the three main reservoirs of the Corporation, at Thornton, Cropstone and Swithland, were depleted to a quite exceptional extent. Restriction of the supply was deferred as long as possible, but eventually, in the last quarter of the year, it was found necessary to shut off the water during the night time.

SEWAGE DISPOSAL. 8

The sewage of the Borough of Leicester was first pumped up to Beaumout Leys Farm in the year 1890.

The total lift is nearly 170 feet above the outfall sewer.

The facts relating to Sewage Disposal have been kindly supplied by Mr. E. G. Mawbey, M. Inst. C.E., Borough Engineer.

The Belgrave Sewage Farm was abolished and the sewage from the Belgrave district first pumped to Beaumont Leys Farm in 1905.

The total lift in this case is 175 feet above the outfall sewer.

The total dry weather flow is about eight million gallons per day.

On reaching the Beanmont Leys Sewage Farm, the whole of the sewage is subjected to preliminary bacterial treatment for clarification before final purification on the land.

It is first passed through subsidence tanks, and then treated in first-contact bacteria beds, which cover an area of about twelve acres,

After this preliminary bacterial clarification, the sewage is finally purified by broad irrigation over about 1,350 acres of land, which consists largely of old pasture and rye grass.

The final effluent from the land is discharged partly into the River Soar, within the Borough, and partly into the Rothley Brook, on the Anstey side of the farm, which also eventually discharges into the River Soar.

The total area of the farm is 1,700 acres. The portion not available for sewaging is used for grazing when it is not convenient for the bullocks to be upon the sewaged area.

PUBLIC BATHS.

There are now five public baths in Leicester, viz., Bath Lane, Vestry Street, Cossington Street (Belgrave), Spence Street (West Humberstone), and Knighton Fields Road (Aylestone). The last named was opened in 1910, and differs from the others in being provided with a patent purification plant, whereby the water is continuously being strained, filtered and aerated (except when the pump is not working). The satisfactory results obtained by this process were referred to in the last Annual Report.

A further innovation, of a different nature, has now been introduced at the Aylestone baths, viz., "mixed" bathing. This has been successfully tried in a number of other towns, so that there is not much doubt that it will also prove satisfactory in Leicester, in which case it will do much to popularise bathing

and afford much greater facilities especially as regards women and girls, to learn to swim. From the public health point of view the new departure must be heartily welcomed, and it is to be hoped that it may soon be found feasable to extend the same facilities to the other public baths.

INSPECTION OF MEAT AND OTHER FOOD.

There are two special Food Inspectors, whose time is devoted to the inspection of food, and especially meat.

A special report by them upon the year's work appears in Appendix V.

A voluntary arrangement has existed in Leicester for many years, whereby butchers and others having anything doubtful request the Food Inspector to see it. If he is mable to "pass" it, the meat or other article is voluntarily surrendered, and it is then destroyed free of charge at the Corporation destructors. A similar arrangement exists in many towns and works well, and it is, no doubt, in the public interest.

SLAUGHTER HOUSES.

In addition to private slaughter houses, of which there are 66 in different parts of the Borough, Leicester possesses a Corporation Abattoir, situate on the Aylestone Road, comprising eighteen slaughter houses. Twelve of these were erected about thirty years ago, and the other six in 1896. Seventeen are let to private tenants, some of whom sub-let to others; whilst only one is reserved for casual slaughtering. The rent received amounts to between £300 and £400. The approximate number of animals slaughtered annually is =beasts, 4,500; sheep, 10,000; pigs, 15,000. Both the private slaughter houses and those belonging to the Corporation have been repeatedly visited during the year by the Meat Inspectors.

THE WORKMEN'S COMPENSATION ACT, 1907.

During the year 1911, 53 cases of accident or injury to Corporation employees were referred to the Medical Officer of Health for examination and report. Many of these cases had to be seen more than once.

PTOMAINE POISONING.

In June, 1944, an outbreak of ptomaine poisoning occurred in Leicester, and although, fortunately, none of the cases proved fatal, a number of persons were made seriously ill for the time being.

The outbreak was clearly traced to the consumption of a particular batch of potted meat (beef), manufactured by a firm in the town. Altogether upwards of 60 people, all of whom had partaken of the potted meat, were taken ill, the symptoms being violent diarrhea, vomiting, and pains in the abdomen and limbs. and pyrexia coming on a few hours (in some cases not till 18 hours) afterwards. In almost all of the cases the symptoms were so severe as to necessitate a medical man being called in. The illness lasted from 24 hours to several days. In one instance, some ladies returning to their home in the South of England took with them a dish of the potted meat, some of which they gave to some friends living in the flat below them. All who partook of the meat (in the two families) were taken ill. The remainder of the potted meat was then given to the care-taker with instructions to burn it; but as it looked all right, and she was sceptical as to its being the cause of the illness, she did not destroy it, but had it for her tea with two other persons. All these were taken ill in precisely the same way as the others. The Medical Officer of Health for the district was called in, and it was through him that the facts in this group of eases came to my notice. It is noteworthy that all those who had partaken of the potted meat agree that they noticed nothing suspicious or peculiar about it as regards taste, smell or appearance.

As soon as the occurrence of the outbreak was brought to the knowledge of the Health Department, which was not until a day or two after the meat had been consumed, full investigation was made. The premises were found to be in a satisfactory condition as regards cleanliness, and, generally speaking, as regards structure also. The process of potting meat appeared to be carried on carefully and in a cleanly manner. The proprietor had, indeed, been at considerable trouble and expense to render the premises satisfactory. The premises were, however, also used as a slaughter house for pigs, and although the meat potting was carried on in separate rooms from the slaughter house, the same

men were employed. We were told that the two operations were carried on on different days. The weather at the time was exceptionally hot, and the potted meat, after manufacture, was left all night in a warm room. As already stated, all the cases of illness had apparently been caused by one particular batch. but nothing exceptional could be discovered as regards the making of this batch or the materials used to account for its developing poisonous qualities. We were, unfortunately, mable to obtain any samples of the potted meat in question any that had not been eaten having been thrown away before we appeared on the scene. The Medical Officer of Health of the town already referred to was, however, more successful, he having been called in as a medical practitioner when the victims were first taken ill-He informed me that he obtained some of the potted meat and had examined it bacteriologically and had found many microorganisms, chiefly striptococci, and a stout bacillus resembling Gaertner's bacillus, both morphologically and in its reaction to various methods of staining.

There can be little doubt that some extraneous organism. e.g., Gaertner's bacillus, had in some way or other gained access to the potted meat, and almost certainly during the process of manufacture, as only the one batch was involved; and this, under the favourable conditions provided by the exceptionally warm weather, would multiply very rapidly. It is known that such organisms may be present in highly dangerous unmbers without affecting the taste or smell of the meat, or being accompanied by any obvious signs of putrefaction.

Fortunately, ontbreaks of meat poisoning are rare, but when they do occur they are apt to be very serious. The practice of manufacturing potted meat on premises used also for slaughtering, although not unusual on account of the obvious convenience, is far from being ideal, and possibilities for contamination must exist which would not be the case where the process of potting is carried on at a distance from the slaughter house.

It only remains to add that almost simultaneously with this outbreak a few other cases occurred presenting similar symptoms which could not be traced to this source.

As a result of an inspection of the premises where the brawn was prepared, the Medical Officer of Health made suggestions as to certain structural alterations, with a view to more completely entting off the room where the meat was cooked, chopped and prepared from the slaughter house. This the proprietor readily consented to, and very substantial improvements have been effected at not inconsiderable expense.

CLEANSING OF PERSONS ACT, 1897.

During the year representations have been made as to the need for a public cleansing station in Leicester, and the question has been raised as to the desirability of exercising the powers conferred by the Cleansing of Persons Act, 1897, which enables local authorities to provide facilities, free of charge, for the cleansing of persons who may have become infested with vermin.

The question is, undoubtedly, a very important one. It is certainly most desirable in the interests of the community, that any verminous persons who wish to be cleansed and to have their clothing purified should have facilities for doing this. A number of local authorities have already taken action in this direction, and your Chairman (Ald. Windley) and the Medical Officer of Health took the opportunity last summer of visiting two of the principal cleansing stations in London, viz., those at Marylebone and St. Paneras.

A report on the subject has been prepared by the Medical Officer of Health and is now under consideration.

CREMATION.

The Leicester Crematorium was opened by the Corporation in 1902. It is situated at the Cibroes Cemetery, Groby Road, and constitutes an annexe to one of the two cemetery chapels.

The number of cremations performed in 1911 was 13, the average for the eight years the crematorium has been in operation being the same figure.

REPORT

ON THE

INFANTS' MILK DEPOT

FOR THE YEAR 1911.

The Leicester Municipal Infants' Milk Depot has now been in existence for over five years, having been opened in July, 1906.

It is satisfactory to record that whereas many other Infants' Milk Depots in other towns have been closed, after a few years existence, either because they failed to be appreciated by the public, or because of the heavy expense entailed, the Leicester Milk Depot has on the other hand never been in a more flourishing condition. It has steadily increased in popularity as it became more and more known, and at the same time the cost of upkeep to the rates (i.e., excess of expenditure over income) has been steadily diminished. This is shown by the following figures:-

LEICESTER INFANTS' MILK DEPOT.

Year.	Number of New Cases brought to Depot.	Average Number of Infants on the Books,	Cost of Upl Excess of ents over Re	Pay-
1907	672	202	£ s. 339 5	
1908	632	195	167 14	6
1909	639	216	110-17	f
1910	854	274	43 10	4
1101	():}()	325	Nil.	

Hitherto the payments debited to the Milk Depot account have meluded an annual payment of £25 made to the Leicester Health Society by the Sanitary Committee in recognition of the work done by the Society's Health Visitors in visiting the homes of infants on the Milk Depot, and for assisting at the infants consultations held at the Milk Depot (wice a week. This payment would be more correctly debited to the general expenses of the Sanitary Department, as in the case of the salaries paid to the Corporation's own Health Visitors, and in tuture it is proposed to do this.

It will be seen that the work of the Milk Depot has not only greatly increased, so far as the number of cases dealt with is concerned, but the cost of upkeep has so far decreased that during the past year the receipts have more than balanced the payments—i.e., the Milk Depot has been self-supporting. Moreover the interior of the premises has been renovated, and the cost of this has been included in the year's payments.

This very satisfactory state of affairs from the financial point of view has undoubtedly been chiefly due to the substitution of dried milk for the prepared sterilised milk, put up in small bottles, at first employed. This latter form of milk has been the kind supplied at most of the milk depots which have failed. It is very costly to prepare, and can only be supplied to the poor at a heavy loss. Moreover, and this of course is the most important point, it is not so satisfactory as a food for infants.

A further reference to the use of dried milk will be made later.

The following letter is a sample of the testimony not infrequently received from mothers, and, at the risk of appearing to imitate the vendors of patent medicines, I am inserting it to show that parents are not ungrateful for the benefits conferred upon their infants by the Milk Depot.

COPY OF LETTER SENT TO MANAGERESS.

Alma Street, Newfoundpool,

July 26th, 1911.

Dear Sir or Madam,

Just a line which I feel my duty to write in praise of Depot dried milk, which without doubt has saved our baby's life. Our Doctor said she was wasting away, and now I am proud she is two years and four months to-day and weighs 28 pounds, and is now the bonniest of our children. People say she is a wonder, they did not think she would live.

I remain, yours respectfully.

A, H, D,

The minimum number of infants on the books during 1914 was in January when it was 267, and the number increased till it reached a maximum in December of 381, this being the highest figure hitherto attained.

A number of infants were brought from outside the Borough, viz., from Birstall, Thurmaston, Syston, Wigston, Whetstone, &c. A small extra charge is made in these cases.

As in previous years there were a number of rold customers' i.e., mothers who returned to the Depot with a fresh baby. Thus, there were 89 instances of second babies, 11 of third babies, and 7 of fourth babies. This is satisfactory as proving that mothers appreciate the benefit of the Milk Depot.

There were eight sets of twins brought to the Depot during the year.

461 infants were stated to have been brought on the advice of medical men. The co-operation of the medical practitioners in the Borough has been of great assistance and is much appreciated.

Classifying the completed cases during 1911 according to the time they remained on the Depot, we find:—

PERIOD ON THE DEPOT.					No	No. of Cases,	
Not more than							
l v	veek					162	
.2						(;;)	
4						85	
2 months			* * .			95	
3	31					67	
+	••		• • •			36	
.)					• •	:}.>	
6						.i l	
1			* *			38	
8						24	
9						29	
10						28	
1.1			• • •			39	
12						52	
Ove	r 12					57	
						861	

Excluding the 162 cases which did not have the Depot Milk for more than a week, there were 24 deaths of infants whilst on the Depot. The great majority of these cases were not in good health at the time they were first brought to the Depot. Nine

of the deaths were caused by diarrhea, one by diphtheria, three by bronchitis, two by measles, and nine by other causes.

CO-OPERATION OF OTHER BODIES.

The Charity Organisation Society, as in previous years, have helped by paying for the milk in special cases brought to their notice. During 1911 they assisted in 12 instances, including one case of twins. The average period per case for which they paid was 12½ weeks, the total amount paid being £14 4s, 8d.

The Guardians likewise have paid for 21 cases, including one of twins, the average period being $4\frac{1}{2}$ weeks, and the total amount paid being £7 15s, 0d.

Cases have been sent to the Depot by the Workhouse Aid Committee, the R.S.P.C.C., the Maternity Hospital, and the General Infirmary.

REDUCED CHARGE FOR THE MILK IN SPECIAL CASES.

In a certain number of cases, where poverty has existed and parents have had a difficulty in paying the ordinary price charged for the milk, they have been allowed to have it at a reduced price, which just covers the actual cost of the milk purchased wholesale, but leaves no margin towards the cost of up-keep of the Depot. Thus, of 376 cases remaining on the books on December 31st, 117 were having the milk at a reduced price. In still other cases it has occasionally been necessary to give the milk, temporarily, free of charge. The value of milk thus given away during the year was £6 17s. 9d.

The Health Society continues to co-operate closely, as has been the case ever since the Milk Depot started. The Society's Health Visitor (Miss Dorothy Lenn) devotes a portion of her time to visiting the homes of infants on the Depot, and during the year she paid 585 of such visits. She also attends the Infants' Consultations held at the Depot twice weekly.

In recognition of her services the Sanitary Committee contribute £25 per amumi towards her salary. This work, though very valuable, would otherwise be done by the Corporation

Health Visitors: and although in the past the above contribution has been debited as referred to above, to the Milk Depot account, it is proposed in future to regard it as part of the general expenses of the Sanitary Department, as it is not essential to the work of the Milk Depot.

DELIVERY OF MILK.

In a certain number of cases where the people live at a distance from the Milk Depot, the dried milk is delivered weekly or as required through the Parcel Department of the Tramways, a charge of one penny per delivery being made. The majority of customers, however, prefer to fetch the milk, and many of them have to walk long distances to get to the Depot.

There is, undoubtedly, a need for branch depots in some of the outlying districts, where the milk could be obtained without having to come to Belgrave Gate each week.

An experiment is now being made in one district (Gartree Street). Mrs. Beddow, wife of the Minister of Wyeliffe Church, having kindly volunteered to stock and distribute the Milk Depot milk at a house used for social work in connection with the above church.

INFANT CONSULTATIONS.

Undonbtedly, one very important part of the work of an infants' milk depot is the advice given to mothers as to the rearing of their infants. Infant consultations are held twice a week, on Monday and Wednesday afternoons, and mothers are encouraged to bring their infants to be weighed and inspected by the doctor (the M.O.H. or Assist, M.O.H.). The number of infants being fed from the Depot is now so great that after a few weighings, at intervals of about a fortnight, mothers are not pressed to bring their infants, except in such cases as are not progressing satisfactorily.

The attendance at the Infant Consultations varies considerably, being dependent largely upon the weather, but on a fine afternoon the number is usually about 30, but may reach 40 or 50.

THE USE OF DRIED MILK.

It is now over four years since the use of dried milk was beginn in place of the specially prepared bottled milk. At first it was only used tentatively, and in cases in which the bottled milk was apparently not suiting. The results obtained were so satisfactory that the use of dried milk was gradually extended, until in 1911 it had entirely taken the place of the bottled milk, which was then discontinued. The question of the suitability of dried milk as a food for infants, and of the advantages of using it at infants milk depots, was gone into at some length in the last Annual Report.

The Food Department of the Local Government Board being interested in the question, Dr. Contts, one of the medical staff of the Board, paid a visit to Leicester to make enquiries on the spot. In order that he might judge how far the medical practitioners in Leicester shared the good opinion of your Medical Officer of Health in regard to dried milk, an inquiry was addressed by the latter to 60 of the medical men in general practice in the Borough.

The result of this inquiry is shown below.

DRIED MILK AS A FOOD FOR INFANTS.

Result of Inquiry addressed by the Medical Officer of Health to Medical Practitioners in Leicester, February, 1912.

QUESTIONS.

The questions asked were as follows:--

- 1. Have you had any cases of infants in your practice who have been fed on dried milk? If possible, give an indication of the approximate number.
- 2. What is your opinion as to the value of dried milk as a food for infants as a substitute for liquid cow's milk?
- 3.—Have you come across any cases of rickets or scurvy which you were inclined to attribute to the use of dried milk? If you can give the names and addresses of such cases it will be regarded as a favour.
- 4. Have you come across any specific cases where any other bad results followed the prolonged use of dried milk, and which in your opinion could reasonably be attributed to such use? Kindly give the names and addresses of such cases.
 - 5. Remarks.

REPLIES.

The results of the inquiry may be summarised as follows. Sixty inquiry forms were sent out, and 53 replies were received. Of these 14 stated that the writers had not had experience of dried milk. The remainder, 39 in number, may be classified as follows:

- (a) FAVOURABLE.

The following are examples of the favourable replies:

- 1.—Has had experience of between 40 and 50 (probably more). Writes: "With the exception of an isolated case here and there. I have had unqualified success. . . . Dried milk in my opinion, for very young infants, far surpasses the former Pasteurised or sterilised milks in common use some years ago." He has seen no bad results, but usually recommends the use of orange or grape juice. Generally discontinues the milk after six months.
- 2.—Has had a large experience, from 20 to 30 per annum for some years. "I find children do better with dried milk as a rule than with any other form of milk I have tried." Has had no bad results which he could attribute to the use of the milk.
- 3. -Has had considerable experience, probably over 100 or more, "I have every reason to be satisfied with it, but I always select the cases." Has not seen any untoward results. Always prescribes fruit juice.
- 4.—Has had a good many cases. Has a very good opinion of dried milk. Has seen no bad results. "Most of the cases treated with dried milk put on weight rapidly."
- 5.—"I consider dried milk the very best substitute for liquid cow's milk." Has come across no untoward results.
- 6. Has had about 30 cases in his practice which have been fed ou dried milk. "Very satisfactory, especially in the summer months when liquid cow's milk is so apt to become infected. . . . My own child, now one year old, was fed on dried milk during the summer and autumn months, and was then, and is now, perfectly well." Has come ocross no bad results.
- 7. Has had experience of about 50 cases. "In the majority of cases just as good (as liquid cow's milk), very much better when the mothers are ignorant or lazy, especially in hot weather. My expertence has been that it is an excellent food." Has had no bad results.
- 8. Has had experience of a great number but cannot give exact figure. Considers that dried milk is preferable to liquid milk, specially in summer. Has seen no bad results.

- 9.—Has had experience of npwards of 100 cases. Considers that dried milk is better than liquid milk. Has had no bad results. "I frequently recommend dried milk, and speaking generally the result has been good,"
- 10.—Considers dried milk "very suitable, especially for working class people, who often have a difficulty with cow's milk especially in hot weather." Has had no bad results. Has only found one case in which the milk did not agree.
- 11.—Has had experience of a dozen or more cases. "In several cases I believe it has been of great benefit. The dried milk seemed to be easily assimilated and retained in the stomach when cow's milk was rejected. Several mothers informed me that the dried milk got at the Municipal Infants' Milk bepot had improved the health of their infants very much." Has not come across any bad results.
- 12.—Has had a very large experience of dried milk. "The results in the very large majority of my cases have been good. In a very few cases the dried milk did not do well (the children not gaining weight, &c.) and a change was made." Has come across no bad results.
- 13. Has seen a considerable number of children fed on dried milk principally in the O.P. department at the Infirmary. "In my opinion infants fed on dried milk have thriven quite as well as if fed on liquid cow's milk—I consider that dried milk has the advantage over liquid cow's milk as a food for infants, especially as regards convenience of supply and storage, and less liability to contamination." Has come across no bad results.
- 14. "I have had a number of cases where I have recommended dried milk, but am not able to say how many. In most cases I have found it do well, though some few have not been able to take it." Has come across no bad results.
- 15. Has had about 40 or 50 cases. "I have found it very useful, and infants get on very well with it. People like it, as it saves a lot of trouble in preparing the fresh milk every day. In my opinion it is much safer as regards infection. . . . In my opinion the dried milk should be much more popular."

(b) DOUBTFUL.

As regards the seven medical men whose replies were classified as "Doubtful," some of these qualified their answers by stating that they had seen one or more cases in which they were inclined to attribute bad results. In no case, however, could they give the name and address of any such case.

(c) ADVERSE.

The two replies which were unfavourable were to the following effect.

16. Has had expendence of dired nulls, out is mable to give the the number. "I do not consider it satisfactory as a substitute for liquid cow's nulls. I have seen cases of rickets which might be attributed to the dried nulls, but am sorry that I am unable to give names."

17. Has seen "dozens" of cases led on dried milk. "I do not like it, and do not recommend it. In fact I have never seen it do any good at all." Has seen rickets and diarrhom which he attributed to the use of dried milk. (As no names or addresses could be given it has not been possible to investigate these cases. C.K.M.).

It should be observed that in many, though not all, of the cases referred to in the above replies, the dried milk was obtained at the Corporation Infants' Milk Deport.

The above replies indicate that a large majority of the medical practitioners in Leicester entertain a high opinion of the value of dried milk as a food for infants. It may be added that the form of dried milk employed at the Milk Depot is chiefly that made by the "Hattmaker" process, but the preparation known as "Trumilk" is also employed though to a less extent.

The following are examples of satisfactory cases:-

Kythleen M.——(No. 183). Was brought to the Depot when three months old. Reported to have been healthy when born, but not thriving, and appeared to be in poor health when first seen. Dried milk (Trumilk Brand) was prescribed and steady improvement followed. At twelve months old looked the picture of health, and had increased during the nine months from 8 lbs. 14 ozs, to 24 lbs.

JESSIE W — (No. 150). Brought to the Depot when four months old on advice of medical man. Was in very poor health and had lost 1 lb, in weight the previous week. Mother stated that she had tried almost every kind of food. Dried milk (Hattmaker) was prescribed, and steady improvement began and was maintained until the baby was twelve months old, when the milk was discontinued. Weight when brought, 9 lbs. 13 ozs.; weight at twelve months old, 24 lbs. 8 ozs.

CLIFFORD B- = (No. 333). Brought to the Depot when five months old on advice of medical man. Looked miserable and puny, and stated to have been delicate from birth. Mother

could not get a food to snit. Made very slow progress at first, but afterwards rapid improvement set in. Weight when first brought (five months old), only 7 lbs. 7 ozs.: weight at twelve months, 22 lbs.

OLIVE B——. Brought to the Depot when seven weeks old: delicate from birth. Mother had tried various foods without success. Improvement slow at first, afterwards more rapid, and at twelve months old she was a very fine child. Weight when brought, 7 lbs. 9 ozs.; at ten months old, 21 lbs. 8 ozs.

Walter C-— (No. 535). Brought to the Depot when six weeks old on advice of medical man. This was a case of premature birth (eight months). Mother could not get a food to suit. The child seemed to improve at once, and at twelve months old was a fine healthy child.

Victor D-— (No. 452). Brought to the Depot when one month old on advice of medical man. Mother stated that the Doctor told her that bringing the baby to the Depot was the last resource. No food had seemed to suit. Steady improvement set in, and at twelve months old the child had increased from 9lbs, to 21 lbs, 8 ozs.

Mrs. Stanion, who has been Manageress of the Depot since it was first opened, continues to render excellent service, and I gladly acknowledge the large share she has had in making the Depot the success it undoubtedly is. She is the right woman in the right place.

C. KILLICK MILLARD.

Medical Officer of Health.

Town Hall, Leicester, March, 1912,

BOROUGH OF LEICESTER.

INFANTS' MILK DEPOT.

Receipts and Payments during year ended 31st March, 1912.

Payments.			١٠		d.	(*	S.	,1
						٤	٠٠.	١٤.
Wages			57	11	()			
Purchase of Milk			1060	6	7			
Railway Carriage and	Delive	ery of						
Milk			10	14	2			
Bottles, Stoppers, &c.			21	8	4			
Reut. Rates and Insur	rance		46	9	9			
Fuel, Light and Wate	1.		17	8	10			
Telephone			7	.)	•)			
Printing and Statione	J. V.		18	1	()			
Fittings and Repairs			2.5	()	4			
Sundries			17	7	11			
Health Visitor (part s	alary)		2.5	()	()			
						1306	13	4
RECEIPTS.								
Sale of Milk, &c.		• •				1347	16	11
Receipts i	n exces	s of Pag	vment	>		£41	3	7

W. PENN-LEWIS,

May, 1912.

Borough Treasurer.



REPORT

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BOROUGH ISOLATION HOSPITAL

FOR 1911.

By C. F. WALKER, B.A., M.D., B.S., D.P.H.,

Resident Medical Officer and Assistant Medical Officer of Health.

On 31st December, 1910, there were 91 patients remaining in the Hospital. During the year, 1351 patients were admitted, 1255 were discharged, and 29 died, leaving 158 in Hospital on 31st December, 1911.

The admissions showed an increase of 392 on the previous year, this being chiefly due to an increase in scarlet fever and diphtheria. There was also an increase in the number of enteric fever and of phthisis patients.

The particulars of the admissions were as follows:

Scarlet Fever	 	873
Diphtheria	 	176
Enteric Fever	 	37
Phthisis	 • • •	201
" Pre-tuberenlar"		61
Unclassified	 	*)
(1)		-
Total		1351

The Leicester Isolation Hospital is situated on the Groby Road, two and a half miles from the centre of the town, and one mile beyond the Borough boundary. The site, which covers sixteen acres of land, is a particularly good one, being on rising ground with a gentle slope to the south. The Hospital was opened in 1900, and provides accommodation for nearly 200 patients.

The Smallpox Hospital is on the Anstey Lane, a quarter of a mile away from the Isolation Hospital. It stands on four acres of ground, and consists of wooden buildings covered with galvanised iron. It provides accommodation for 60 patients.

SCARLET FEVER.

The number of admissions for 1911 was 873, as compared with 739 in 1910, and 1166 in 1909,

The increase was due to the increased prevalence of the disease during the last quarter of the year. During the first half of the year the numbers remained exceptionally low, and it was found possible to close one of the wards.

The type of disease has been extraordinarily mild, the fatal cases numbering only 6, equivalent to a case-mortality of only 7 per cent. The case-mortality for the preceding years has been: 1910, 16: 1909-14: 1908, 2:2: 1907, 3:0 per cent.

All six fatal cases were in children under five years of age, and four of these were under two years. All were of exceptionally severe septic type, and in three diphtheria was also present.

The average period of isolation was 30°8 days, this being by far the shortest recorded during the past ten years (see Table B). This is due to the practice adopted during the year of disregarding late desquamation in discharging patients, and also to the mild character of the disease.

The encalyptus oil treatment, commenced in 1910, was continued in a modified form throughout the year. Reference will be made to this by the Medical Officer of Health in his General Report.

During the month of November there occurred a small ontbreak of this disease in the Diphtheria Pavilion, a patient having been admitted there in the incubation stage of scarlet fever. During the next few weeks several cases occurred in succession, about half a dozen in all. All the cases made good recoveries, and by using part of the Isolation Block, and thoroughly disinfecting both diphtheria wards, it was found possible to stamp out the outbreak by the end of the year.

DIPHTHERIA.

The number of diphtheria cases admitted was 176, being a large increase on the previous year. Although many were of the severest type, especially during the latter part of the year, the case mortality was only 6.8 per cent. as against 7.1 per cent. in 1910, and 9.6 per cent. in 1909,

Operations performed for laryngeal obstruction numbered 58, of which no fewer than 48 took place during the last three months of the year. Altogether 31 patients were operated on: of these 21 required intubation only (in some cases repeated), in four other patients intubation had to be followed by tracheotomy, while in six cases of great argency tracheotomy was resorted to at once. The deaths of operation cases numbered 8, as follows:

Intribation alone......2Intribation followed by tracheotomy...2Tracheotomy alone.........

The mortality of the tracheotomy cases is apparently high, but it should be borne in mind that all these cases were in a desperate condition, intubation having either been impossible or having failed to give relief.

As showing the desperate condition in which many of the laryngeal cases were admitted, it may be stated that one child died of laryngeal obstruction in the ambulance on the way to the Hospital, while no fewer than three others, although operated upon immediately on arrival, actually ceased to breathe before the operation commenced, or before it could be completed. It is gratifying, however, to be able to record that the operation, followed by subsequent artificial respiration, was successful in resuscitating two of these patients, who made good recoveries. The third also rallied, and was making satisfactory progress, when he died of sudden heart failure a week after admission.

Many of the non-laryngeal cases were also of an extremely virulent type, and of these four died, making a total of twelve deaths from diphtheria. The average time which these patients had been ill before admission was between six and seven days. Four of the deaths occurred within 24 hours, and eight within 48 hours, after admission to Hospital.

The average stay in Hospital of all diphtheria patients (including the fatal cases) was 28% days.

ENTERIC FEVER.

Thirty-seven cases were admitted as enteric fever during the year, but three of these proved not to be that disease. Of the remaining 34 genuine cases eight proved fatal. During the latter

part of the year there was a considerable increase in the number admitted, traceable to the consumption of contaminated shell-tish. Reference is made to this by the Medical Officer of Health in his General Report.

About half the number admitted were cases of a very severe type.

Of the eight deaths, four were due to exhaustion and heart failure, two to intestinal hemorrhage, one to peritonitis, while the remaining case died during convalescence from an incurable spinal disease from which he had suffered for years.

The average stay of patients in Hospital was 47 days.

UNCLASSIFIED CASES.

These numbered three, as follows: —

Pleurisy	 	1
Hemorrhagic Enteritis	 	1
Obscure pulmonary disease	 	1

The average stay of these patients was 50 days. None of the cases proved fatal.

PHTHISIS.

During the year 201 cases were admitted, of whom one died having developed symptoms of tubercular meningitis two days after admission. The great majority of the patients showed a very striking improvement under combined tuberculin and sanatorium treatment.

The average length of time that each patient remained at the Sanatorium was 48:9 days.

TUBERCULIN TREATMENT.

Towards the middle of the year, treatment by means of unberculin was definitely adopted as a routine practice in the case of all patients for whom it was not contra-indicated. The method adopted was that by progressively increasing doses, beginning with the preparation known as "P.T.O." as recommended by Dr. Camac Wilkinson. This question is dealt with by the Medical Officer of Health in his report.

"PRE-TUBERCULAR" CASES.

During the past summer it was possible, owing to the small number of patients in Hospital, to set aside a block for the treatment of children suspected of being predisposed to consumption, and 61 such cases were admitted. As this subject has been discussed by the Medical Officer of Health in his Report, it is unnecessary to refer to it further beyond saying that the average gain in weight (excluding two of the cases who died) was 5½ lbs.

BACTERIOLOGY.

The work of the laboratory is still carried on as in previous years. Facilities are afforded to the practitioners within the Borough to have specimens of sputum, throat swabs, or blood examined free of charge, as an aid to diagnosis in doubtful cases of phthisis, diphtheria and enteric fever.

More work has been done in this department than in any previous year, upwards of 250 specimens having been bacteriologically examined.

STAFF.

The health of the Staff during 1911 has been satisfactory. One muse contracted enteric fever, but made a good recovery. Two probationer muses suffered from diphtheria, and one from scarlet fever: they also recovered completely.

HONORARY CHAPLAIN.

The Hospital owes a debt of deep gratitude to the Honorary Chaplain, the Rev. Canon Gedge, who still continues his voluntary ministrations to the sick. His weekly visits to the Hospital are gratefully appreciated, both by the patients and by the Staff.

The continued work of the Church-workers' Guild, which conducts a Sunday evening service for the consumptive patients, is also much appreciated.

GIFTS TO THE HOSPITAL

DURING 1911.

All Souls' Church Baza) :1 1:		Dolls and scrap books.
All Saints' School			Flowers and plants.
Anstey Adult School			Flowers.
Bankart Mr. (Morland			
Barker, Miss (Mountso			
2.122			Christmas cards.
			Papers and magazines.
			*
			Papers and magazines.
Casson, Rev. J. (St. A. Vicarage)	ngusun 		Plants and flowers.
Cox, Mrs			
			Large doll & 1 doz. small dolls.
Donisthorpe, Mrs.			Serap book and toys.
Day, Miss Nora			Toys.
Ellis, Mrs. James	• • •		Papers and magazines.
Ellis, Mrs. Bancroft			Toys and books.
Ellis, Mrs. (Granby Str			Bags of sweets and toys.
Ellis, Mrs. (Bonsall Str		• • •	
Gedge, Rev. Canon			Socks, vests, toys, games, etc.
`	• •		
Girling, Mrs			
Haines, Mrs	*		Large doll from St. Saviour's Sale of Work.
Haines, Mrs			Books.
Harrison, Mrs			Books, etc.
Hodgson, Miss			Magazines.
Keary, Mrs			Toys and books.
King, Miss L			Dressed doll.
Kemp. Mr			Toys, etc.
Lee, Mrs			
Lakin, Dr			Xmas pictures and magaines.
" Leicester Mail"			Toys.
Mitchell, Messrs. (Hi			
	-		Sweets, nuts and fruit.
-			

GIFTS TO THE HOSPITAL, -Continued.

Smith & Son (G.C.R. Bookstall) Magazines and books.

Samuels, Miss ... Toys.

Thompson, Mr. Arnold ... Toys and balls.

Victoria Road U.M.F. Church ... Books.

Windley, Ald, T. Magazines.

Williams, Rev. (Anstey Vicarage) Magazines (monthly).

Yates, Mrs. Toys and books.

Vaughan, Mrs. (the late) ... Monthly magazines

Per Miss Pickerstein. (for Nurses and Patients).

The usual Tables are appended.

C. F. WALKER.

Resident Medical Officer and Assistant Medical Officer of Health,

TABLE A.

Number of Patients Admitted, Discharged, and Died during 1911.

_:							1
Remaining. 31st December, 1911.	201	\overline{x}	+ -	61	0	С	<u></u>
Died during Year.	:0	<u>:</u> 1	X	_	î۱	C	67
Discharged during Year.	35.		50	20.5	60	÷	25.5
Admitted during Year.	×73	921	<u> </u>	501	<u> </u>	27	. <u>135</u>
Remaining. 31st December, 1910.	0:0	î۱	٠:	+;1	0	С	1 6
÷	*	•	:	:	:		:
료	:	•	•	:	:	•	:
DISEASE.	Searlet Fever	Diphtheria	Enterie Fever	Phthisis	" Pretubereular"	Unclassified	Toral

TABLE B.

Showing, for the different diseases, the number of patients admitted, the average number in Hospital each day, and the average stay in Hospital. (Year ending December 31st.)

	Arorage And Stay Justical,	17		1 - 0 - 0	?!	0.60	?!	6.91	1.6.1	1.58	5.01	**
Total.	ogravz ni smoita briqsoff zad dord	111.5	0.101	5.53	69.1	0.111	204.1	182.6	7	1 19:3	1183.4	127:3
	Zo. oz Patients Admitted.	11 17	χ ::	652	216	1037	1765	1420	1099	13.5	959	1351
Other Diseases.	Average Per Patient. Lugital req	:			•	•	6570	1.6.1	<u>x</u>	16.6	9.9	15.0
011 Disc	lo .oZ zmoits4 .bottimbA	*		•	:	0 0	٦ı	10	÷1	Ē	÷	*15
	Average Artis 's tat Austrel and		:	39.5	9.1::	8.28	0.95	6.5.6	8.09	53.5	5.15	2; 2;
Phthisis.	ograe <i>t.</i> ni shiothd faliqsoll . zaC dord	:	:		:	0.91	10.2	14.1	15.3	15.3	1	97.1
	lo .o.X smorts! bottimbA			8	<u></u>	1.5.1	69	Ž.	5.	104	11:0	201
Smallpox.	ogsrovi vsta 'svst vnottstroq	0.67	1.75	35.5	9.62	35.0	95	*	:	•	:	:
ž Ž	Yo. of Patients Admitted.	7	$\frac{x}{x}$	X X	593	10	-	:	:	:		÷
.er.	Average Arthurs Stay Stay Stay Stay Stay Stay Stay Stay	+:0:	9.04	50.4	45.0	45.5	÷	52.1	2.19	61.5	1.44	47.0
Enteric Fever.	Average Patients in Hospital Each Day,	1-	0.9	÷:	Ĭ: †	5:3	ã.Ł	5.0	6.1	0.8	:::	3.6
Ξ	Yo. oZ Patients L'amitted,	99	<u></u>	ŧ.	::	<u>‡</u>	X X	35.	8	51	56	17
<u></u>	Average Jays Stay Justiferit	30.5	<u>∷</u> ∓	26.3	30.5	26.1		29.1	2. 3.	2.01	37.1	58.2
Diplitheria.	Patients in Patients in Hospital Asch Day.	1.61	2.07		<u>.</u>	6.3	14.0	ž	2.7	1.6	1.7	6.81
=	Zo. oZ Patients bottimbZ.	595	3.5	<u> -</u>	5.6	ž	166	10.5	76	X.	0,	921
P1:	ogravy, yst8 'sysd Juolisf roq	7.07	0.25	0.21	0.81	2.01	31 X	47.1	<u>x</u>	37.9	e E	ž ž
Searlet Fever.	ogravk ni smoind Inspiral Ard dord	1.10	1.7	0.91		₹ 51	0.621	17.70	2:.61	153.0	?!	2.82
ř.	Yo. oZ Patients Admitted.	161	7	08:1	239	739	1471	1196	366	1166	7339	7
		1801	1905	1303	1901	1905	1906	1907	2000	6061	1910	1911

* 61 of these were "Pretubercular" cases,

TABLE C.

BOROUGH OF LEICESTER. ISOLATION HOSPITAL.

Receipts and Payments during two years ending 31st March, 1912.

Davanova	Year	1910-	-11.	Ct	verage ost per ent day.	Year I	911-12.	(*)	erage st per ent day
Payments.	£	s.	d.	s,	d.	£	s, d,	8,	d.
Salaries and Wages	. 1701	18	-3	0	10.81	1813	θ ()	0	8149
Meat	= 230	19	0	0	1.47	267	-6 - 9	0	1'25
Other Provisions	. 1031	- 5	3	- 0	6°55	1277	16 - 0	0	5.98
Furniture, Fittings and									
Domestie Utensils	. 109	7	1	0	0.69	119	15 - 2	0	():50
Bedelothing, Towelling, &c	. 83	16	7	0	0.23	121	7 1	0	0.57
inel, Light and Water	. 852	14	()	0	5.42	874	17 11	()	4.10
Rates, hisurance and Telephone	338	3	.5	()	2.12	338	11 3	0	1:59
Alterations and Repairs	4.3/3	10	8	0	2.73	459	1 0	0	2:1:
Iorsehire. Horsekeep and									
Ambulance	. 107	17	-1	()	0.69	135	4 10	0	0.65
Drugs and Medical Appliances	. 225	- 6	7	0	1:43	315	4 0	0	1:48
Advertising. Printing and									
Stationery	.1 30	7	1	, ()	0.19	4.4	11 0	0	-0.2
Frounds: Gardeners' Wages.									
Materials, &c	. 298	19	10	. ()	1.90	* 134	17 - 1	0	2.0
Cleaning Materials	1.0	12	11	0	0.15	14	6 7	0.	0.02
Sundries	4.00	16	9	0	0:30	66	18 - 5	+ 0	0:31
	1	_					=		
Total Payments	. 5506	14	· }	2	10.98	6282	17 1	_ 2	5:4:
Receipts.									
daintenance of Consumptive									
Patients	. 151	15	0	11		340	12 2	11	
Maintenance of Scarlet Fever	,			11				11	
Patients (Guardians)	. 22	1.1	3						
Other Maintenance Receipts	. 13	16	()	- ()	1.80		13 2	- 0	5.18
Pumping Cemetery Sewage	75	0	()			75	0 - 0		
Sale of Hay	. 18	()	()			21	0 - 0	11	
	. 1	7	8	'		2	3 7		
Aiscellaneous				0	1.80	466	8 11	0	2.13
Aiscellancous Total Receipts	. 282	12	11		1 00				٠, ١,
Total Receipts Net cost (excluding Loan	. 282 c 5224		11 = - 10	2	9:18	5816	8 2	2	3.5:

W. PENN-LEWIS,

May. 1912.

Borough Treasurer.

^{*} This Table takes the place of Tables C and D in previous Reports. * Includes £76–12s. Id. for repairs to Macadam Roads.

TABLE D.

Details of Fuel used during the two years ending 31st March, 1912.

911-12.	Value.	ب : ال	267 19 5	, <u></u>	:	17 2 10	:	305 5 6	:	:	0	x ====================================	÷ : 5013	
Year 1911-12.	Weight.	T. C. Q.	0 01 719	- 8- +:	•	25 18 1	:	950 12 0	:	:		:	1623 18 2	
910.11.	Value.	j.	•	65 8 8	11 1 15	 	6 9		0 2 817	186 16 5	+ 21 8	• •	9 +1 1123	
Year 1910-111.	Weight.	T. C. Q.		138 13 33 13	59 15 1	? + <u>'</u>	c & c:	•	0 91 116	0 1 11+		*	51 4 1851	
Rate	per Ton.		. x	0 6	c)	<u>22</u>	13 9	×	x s	- 6	•	•		
	Farticulars.		[rao.)	:		:	:	ः भुज्ञार	:	:	poo.	Coke		

W. PENN-LEWIS.

Borough Treusner.

May 1912.



PUBLIC ANALYST'S REPORT

FOR THE YEAR 1911.

TOWN HALL LEICESTER.

March, 1912.

To the Chairman and Members of the Sanitary Committee.

Gentlemen.

My Report as Public Analyst for the year 1911 is as follows:

The total number of samples purchased by your Inspectors under the Food and Drugs Acts and submitted for analysis was 392. The nature of the samples is shown in Table A. No samples were submitted by private individuals.

Milk.— The number of samples of new milk submitted was 153, or rather less than usual. In view of the large number of milk vendors in the Borough (about 1200), and of the ease with which milk lends itself to adulteration, this number can hardly be looked upon as sufficient, and an effort will be made during the current year to increase the number to over 200. It is also proposed to pay special attention to such milk vendors who have been found in the past to be selling milk of poor quality.

Of the 153 samples examined 10 were certified as adulterated. Five of these contained added water, the amount ranging from 8 to 12 per cent.; and five were deficient in fat, the highest deficiency being 23 per cent. Prosecutions were undertaken in five instances, and in four of these convictions followed, and fines amounting to £11, exclusive of costs, were inflicted.

False Warranty.—In the remaining instance the case was dismissed, a warranty defence being set up by the defendant, (the retailer), which was accepted by the Bench. The wholesale vendor, a farmer at Whetstone, was then prosecuted for giving a false warranty, and was convicted and fined £10. This result

must be regarded as satisfactory. In too many cases where a warranty defence is set up it is so difficult to decide whether the real culprit is the retailer or the wholesale vendor that further action is not proceeded with.

Cautions.—In four cases where the amount of adulteration was only slight, the vendor was cautioned either by the chairman at a meeting of the Sauitary Committee, or by letter from the Town Clerk. In the remaining case no action was taken as the sample although deficient in non-fatty solids was fairly rich in fat.

Condensed Milk.—Twelve samples were submitted for analysis, but all were found to be genuine. Ten of these were machine-skimmed, and only contained traces of fat, but the fact of these being machine-skimmed was declared on the label. Unfortunately, the full significance of this statement is not properly appreciated by the poor, who purchase machine-skimmed condensed milk very largely on account of its cheapness. It is, of course, quite misnitable as a food for infants, and there is great danger of rickets and other disorders occurring in infants fed on such food for any length of time. Some brands now state on the label that the milk is not a suitable food for young infants. The remaining two samples of condensed milk were "full-cream," and were found to contain 10 per cent, and 9.2 per cent, of fat respectively.

Preservatives in Milk.—Owing to pressure of other work but few samples of milk were examined for preservatives during the year 1911, but such examination is now being made more systematically.

Butter,—131 samples of butter were submitted during the year, and four of these were found to be adulterated. Proceedings were instituted in two cases, and fines of £2 and £5 and costs were inflicted. A large proportion of the butter samples were taken informally, this method of procedure being recommended by the Board of Agriculture as a useful preliminary step. It has the advantage of enabling a much larger number of samples to be taken in a given time. If any of the samples are found to be wrong a formal sample is then taken.

Copier. Twenty-four samples of coffee were taken, and in one instance the sample was found to be a mixture of coffee and chicory. As, however, only the price of a mixture had been charged, and it was the first known offence, the vendor was let off with a caution.

Water Analysis.—Samples of water from the Corporation Reservoirs have been sent by the Waterworks Engineer each quarter, and were found to be up to the usual standard.

I append the usual Tables.

Your obedient servant

C. KILLICK MILLARD,

Public Analyst.

TABLE A.

Summary showing Samples taken and submitted for Analysis during 1911.

		1st Quarter.	arter.	gnd Qu	2nd Quarter.	3rd Quarter.	arter.	4th Quarter.	arter.	Total for Year.	r Year.
Nature of Samples.		Samples taken.	Found Adulter- ated.	Samples taken.	Found Adulter- ated.	Samples taken.	Found Adulter- ated.	Samples taken.	Found Adulter- ated.	Samples taken.	Found Adulter- ated.
Milk (New)		6.	? 1	50	रा	<u>s.</u>	-	95	,:	533	0
(Condensed)	:	•	:		:	:		21	:	<u>∵</u> 1	
Caffee	:	:	:	: <u>:</u>		•	•	<u>x</u>	_	† ?	_
Lard	:	:	:		*	:		<u> </u>	:	<u> </u>	:
Mustard	:	:		9:		:		<u>x</u>		†;	:
Flour	:	:			•	:	•	<u>~1</u>	:	<u>-</u> 1	•
Butter	:	7.7	? 1	<u> </u>	-	<u> </u>		짆	-	<u>==</u>	+
Bread	:	:			:	:		9:	:	9	
Margarine	:	:	:	:		:		:0	:	9	:
Rum	:	•	•	:	•	:		??	:	::	:
Gin	•	•	:	:		:		क्ट	:	÷	:
Whisky			:		:	:		าา	:	รร	:
Brandy	•	•	•	•	:	:	*	??		rr.	:
Total	:	9	+	67	**	6;†	-	?1 ₹+ ×	1-	395	; <u>.</u>
				1	-						,

TABLE B.

Particulars of Adulterated Samples in 1911.

Action taken.	Prosecution. Fined 40s, and costs. Prosecution. Fined 40s, and costs. Prosecution. Warranty defence set up and case dismissed.* Prosecution. Fined £5. No action taken. Cautioned by Committee. Vendor cantioned. No action taken. Sample very rich in fat (+1) prosecution. Fined £3 and costs. Prosecution. Fined £3 and costs. Prosecution. Fined £3 and costs. Defendant failed to appear. Sample was taken informally. Further sample taken formally but found to be gentiine. Cantioned by Town Clerk. The price charged by vendor was only 1s, per 1b. Cantioned by Committee. Cantioned by Committee.
Nature and amount of adulteration.	Ses per cent, added water 100 per cent, of foreign fat 857 per cent, added water 16 per cent, added water 55 per cent, foreign fat 853 deficient in fat 10 per cent, added water 10 per cent, added water 122 per cent, added water 145 per cent, deficient in fat 46 per cent, of chicory 46 per cent, of chicory 666 per cent, deficient of fat 676 per cent, deficient of fat 676 per cent, deficient of fat
Nature of Sample.	Milk Butter Butter Milk Milk Milk Milk Milk Milk Milk Milk
No. of Sample,	25

* In this case the wholesale vendor was subsequently prosecuted for giving a false warranty, and was convicted and lined £10.



APPENDIX IV.

CHIEF INSPECTOR'S REPORT

UPON THE

WORK OF THE SANITARY DEPARTMENT

DURING 1911

To the Medical Omeer of Health.

SIR.—I beg to submit the following report of work done by the Inspectors in the Sanitary Department during the year 1911. The appended Tables show the number and the nature of nuisances abated.

Lam. Sir.

Your obedient servant.

FRANCIS BRALEY, CERT. SAN. INST.

Chief Inspector.

16th April, 1912.

STATEMENT A.

Showing the work done by the Sanitary Staff during the year 1911 and also in 1910.

No. of Visits 1911. 1910							
Systematic House to House Inspection 13.344 15.839 Investigations of Complaints 22.480 20.801 Visits to ascertain the progress of Sanitary and Informal Orders 18.158 18.729 Visits in connection with Infectious Diseases 8.600 6.552 Visits to Common Lodging Houses 534 549 Visits to Bakehouses 549 566 Visits to Canal Boats 107 107 Visits to Workshops 616 664 Visits to Workshops 269 157 Visits to Tish Shops 269 157 Visits to Marine Stores 14 12 Visits to Marine Stores 144 12 Visits to Home-workers 139 141 Visits to Dairies and Milk Shops 848 924 Visits to Cowsheds 212 220 73,549 69,711 Samples of Food, &c., purchased for Analysis ander Adulteration Acts 400 414 Observations for the purpose of Smoke Prevention 3,457 3,438 Stacks reported for Smoke Nuisance 1							
Investigations of Complaints 22,486 20,801 Visits to ascertain the progress of Sanitary and Informal Orders 18,158 18,729 Visits in connection with Infectious Diseases 8,600 6,552 Visits to Common Lodging Houses 534 549 566 Visits to Bakehouses 549 566 Visits to Canal Beats 107 1	Systematic House to He	I.					
Visits to ascertain the progress of Sanitary and Informal Orders 18,158 18,729 Visits in connection with Infectious Diseases 8,600 6,552 Visits to Common Lodging Houses 534 549 Visits to Bakehouses 549 566 Visits to Canal Beats 107 107 Visits to Workshops 616 664 Visits to Fish Shops 269 157 Visits to Garavans 144 136 Visits to Home-workers 149 141 Visits to Home-workers 139 141 Visits to Births 7,535 4,314 Visits to Dairies and Milk Shops 848 924 Visits to Cowsheds 212 220 Samples of Food, &c., purchased for Analysis under Adulteration Acts 400 414 Observations for the purpose of Smoke Prevention 3,457 3,438 Stacks reported for Smoke Nuisance 17 15 Houses Disinfected by the Sanitary Staff 1,963 1,531 Articles Disinfected by Steam 1,433 1,367 Swine repo							
Informal Orders						22,480	20,891
Visits in connection with Infectious Diseases 8,600 6,552 Visits to Common Lodging Houses 534 549 Visits to Bakehouses 549 566 Visits to Canal Boats 107 107 Visits to Workshops 616 664 Visits to Workshops 269 157 Visits to Fish Shops 269 157 Visits to Caravans 144 136 Visits to Marine Stores 144 12 Visits to Home-workers 139 141 Visits to Dairies and Milk Shops 848 924 Visits to Cowsheds 212 220 Samples of Food, &c., purchased for Analysis under Adulteration Acts 400 414 Observations for the purpose of Smoke Prevention 3,457 3,438 Stacks reported for Smoke Nuisanee 17 15 Houses Disinfected by the Sanitary Staff 1,963 1,531 Articles Disinfected by Steam 1,433 1,367 Swine reported to Medical Officer of Health 69 12 Filthy Houses 75 92 Proseentions under the Public Health and Local Acts	Informal Orders	rogres	8 01 5	samtary		18 158	18 720
Visits to Common Lodging Houses 534 549 Visits to Bakehouses 549 566 Visits to Canal Boats 107 107 Visits to Workshops 616 664 Visits to Workshops 269 157 Visits to Fish Shops 269 157 Visits to Caravans 144 136 Visits to Marine Stores 14 12 Visits to Home-workers 139 141 Visits to Births 7,535 4,314 Visits to Dairies and Milk Shops 848 924 Visits to Cowsheds 212 220 Samples of Food, &c., purchased for Analysis under Adulteration Acts 400 414 Observations for the purpose of Smoke Prevention 3,457 3,438 Stacks reported for Smoke Nuisanee 17 15 Houses Disinfected by the Sanitary Staff 1,963 1,531 Articles Disinfected by Steam 1,433 1,367 Swine reported to Medical Officer of Health 69 12 Filthy Houses 48 74 Dilapidated Houses 75 92 <							
Visits to Bakehouses 549 566 Visits to Canal Boats 107 107 Visits to Workshops 616 664 Visits to Fish Shops 269 157 Visits to Caravans 144 136 Visits to Marine Stores 144 12 Visits to Home-workers 139 141 Visits to Births 7.535 4,314 Visits to Dairies and Milk Shops 848 924 Visits to Cowsheds 212 220 Samples of Food, &c., purchased for Analysis under Adulteration Acts 400 414 Observations for the purpose of Smoke Prevention 3,457 3,438 Stacks reported for Smoke Nuisance 17 15 Houses Disinfected by the Sanitary Staff 1,963 1,531 Articles Disinfected by Steam 1,433 1,367 Swine reported to Medical Officer of Health 69 12 Filthy Houses 48 74 Dilapidated Houses 75 92 Prosecutions under the Public Health and Local Acts 3,709 3,591 Letters (including School and Sanitary Notices) sent out from th							
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Filthy Houses	Samples of Food, &c., nuder Adulteration A Observations for the pu tion Stacks reported for Suc Houses Disinfected by t	purch ets rpose o oke Nu he Sar	ased f of Sur iisance nitary	for Ana oke Pre Staff	lysis ven- 	73,549 400 3,457 17 1,963	414 3,438 15 1,531
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STATEMENT B.

During the year Formal and Informal Notices have been served to abate Nuisances as follows:

					No. of Orders.
То	abolish Mamure-pits and Ash-pits				7.2
	repair ditto ditto				G
	provide Ash-bins		• • •		2.528
	erect new Water Closets				14
	repair, alter or rebuild Closets				1
	fix Closet Hoppers and Syphons				7.5
**	tix Flushing Apparatus and lay on	Wat	er Supply		39
••	repair ditto ditto		ditto		57
	alter and ventilate Soil Pipes				1
• •	stop up or disconnect Cellar Drains		• •		4
	lay New Drains				.)
• •	relay or repair Defective Drains				99
••	clear Choked Drains		• • •		508
	cleanse or repair Cisterns				26
	fix lead or iron Sink Wastes		,		30
	fix Gullies				136
	reset Gullies or provide new Grating	<u>1</u> 23			65
	ereer, alter, screen or repair Urinals		• • •		20
• •	repair, reliang or provide new Door	s for	· Closets :	uid	
	Dwellings		• • •		42
	repair, renew and make good Spont	ing			314

STATEMENT B. Continued.

				-
				No. of Orders.
To	cleanse and limewash Closets and Passages			255
	pave Yards and Passages, or repair Paving			314
*1	provide new or relay and repair Floors			80
••	repair Roofs			175
••	cleanse and limewash Houses			420
.,	ventilate Dwellings			6
••	remove Manure and Offensive Matter			10
••	remove Animals kept in such a condition	as to be	a a	
	misance			2:3
11	alter Chimneys and miscellaneous	• • •		309
	reduce Number of Persons occupying House	ses		24
• •	repair Staircases			2.5
• •	fix 4-inch Ventilating Pipes			17
••	repair Walls			4.5
	insert Damp-proof Courses	• • •		123
				*5874

 $^{^{*}}$ The 5874 Defects ordered to be remedied were contained in 4457 Notices, and of these 206 were Formal and 4251 Informal Orders,

STATEMENT C.

Showing the Localities of Sewer Gas Escapes.

Into	Breakfast Rooms, Sitting Ro	oms, at	ıd Din	ing Ro	oms	•)			
•	Houses from Rat Holes	* * *		* * *		9			
••	Kirchens and Sculleries					<u>,</u>			
••	Basement Kitchens and Cellars								
• •	Lobbies and other parts of I	louses				ī			
••	Internal Water Closets					6			
••	External Water Closets					7.5			
• •	Yards, from around badly set	Gullie	s, defe	tive D	rains,				
	etc	• • •	• • •	• • •		122			
From Soil Pipes									
••	Heads and Joints of downri	ght Ra	in Wa	ter Pipe	·s	· <u>)·)</u>			
**	Untrapped Rain Water Cist	erns			• •	:}			
	Gullies in Stables					1			
• •	Ventilating Pipes				• • •	9			
						301			
A 1	to the second of		1 : 1 .						
AHIC	in connection with Houses Diseases have arisen		men I	mecho	115	(; "			
	17150a805 Have artS0H	* * *	• • •	• • •	• • •	65			
	Total					266			

STATEMENT D.

In connection with Infectious Diseases Inspection, the following defects were found, either in the houses referred to in the certificates, or in the houses, closets, etc., in the same yard.

			_	
Defective	and Foul Ashpits	• • •		
• •	and dilapidated Closets			
••	and choked Drains			
11	and unventilated Soil Pipes			
3.9	Urinal, Bath and Lavatory Was	stes		
7.9	Paving and Surface Channels			
••	Untrapped or badly set Gull	ies to	Sink	and
	Yard Drains	• •		
	Water Closet Hoppers and Flus	shing.	Appara	itus
**	Sponting		• • •	
Foul Bri	ck and Defective Shafts to Sinks	• • •		
Foul and	l Defective Rain Water Cisterus			
Filthy U	frinals, Closets and Passages			
Filthy H	ouses			
Escapes	of Sewer Gas into:			
E	xternal Closets			
L.	iving Rooms and Sculleries			
Y	ards, from defective Drains, bac Rain Water Pipes connected	•		
	Sewers or Drains			
	Total			

STATEMENT E.

In connection with the Inspection of Factories and Workshops, the following Sanitary defects have been found, and Formal and Informal Notices served.

					No. of orders.
То	abolish Manure and Ash-pits				1
	provide Ash-tubs or Bins		• • •		12
••	erect New Water Closets				4
	fix Closet Basins and Syphons				7
	repair Flushing Apparatus and lay c	on Wat	er Supl	oly	4
	alter and ventilate Soil Pipes				· <u>'</u>
	relay and repair defective Drains				•)
••	clear choked Drains		• •		9
••	fix Traps or Gally Gratings				2
••	erect, alter, screen, or repair Urinals	• • •			:}
• •	provide new, or relay or repair Floor	``			+
••	repair Roofs	• • •	• •		()
**	cleanse and limewash Workshops				:37
••	repair Walls				I
1.0	fix 4-inch Ventilating Pipes	• • •	• • •		4
	provide Light and Ventilation				8
	Total	• • •			119

STATEMENT F.

Showing the number of Offensive Trades carried on, and Registered and Licensed Premises within the Borough requiring the constant attention of the Inspectors.

Description of Trade.							No.
Slaughter Houses (1	Register	ed)					GG
(1	Public)			• • •	• • •	• • •	18
Tripe Houses	• •	• • •	• • •			• • •	36
Common Lodging 1	louses	• • •	• • •	• • •	• • •	• • •	31
Bakehouses						• • •	25:3
Cowsheds	• • •		• • •	• • •	• • •	• • •	52
Milk Shops and Dai	iries						1219
Tallow Melters						• • •	1
Chemical Works					• • •	• • •	-5
Tanners and Fellme	ngers			• • •		• • •	2
Bone Boilers						• • •	1
Knacker's Yard		• • •					1
Gut Scrapers							.)

STATEMENT G.

Showing the quantity of Meat, etc., condemned by the Inspectors of Foods during the year 1911.

MEAT, ETC., CONDEMNED AND DESTROYED.

Meat						Tons. 79		•	
Fish						32	19	*)	<u>·</u> 2
Fruit	•••	• • •	* * *	• • •		1	()	*)	:}
Vegeti	ables					1	17	<u>·</u> 2	()
	Rabbits						2.2	50	
	Preserved	Foods	• • •	• • •		• • •	5,582		
	Oysters				• • •		. 8,039		
	Poultry						. 1.211		
	Eggs					• • •	2,030		
	Hieres	• • •				• •	10:3		
	Came		• • •				-)	92	
	Yeast						1.2	34 lb	٠.



REPORT

OF THE

INSPECTORS OF FOOD.

Messrs, MARTIN TYLDESLEY & FREDK, SOWERBUTTS.

During the year 1911 inspection has been made of the following: Wholesale fish, fruit and vegetable markets (daily): retail fish market (daily, Mondays excepted): general markets (Wednesday and Saturday): meat market (Saturday): eattle markets (fat and store stock): Corporation and private slaughter houses: butchers', fishmongers', fruiterers', and greengrocers' shops: hawkers' carts and barrows: pork pie manufactories: restaurants: tripe auction: tripe boilers' premises: jam manufactory: cold air stores (Corporation and private): gut scrapers' premises: knackers' yards: and cowsheds.

The amount of food voluntarily surrendered or seized is given in Statement G in the Chief Inspector's Report.

The number of carcases destroyed during 1911 and in the previous year for tuberenlosis was as follows:-

		1910.	1911.
Beef	 	97	1f4 carcases.
		17	16 forequarters.
			2 hindquarters.
Pork	 	12	25 carcases.

In addition to the above carcases, 3 tons 5 cwt. 1 qr. 17 lbs, of offals were destroyed during 1911 on account of localised tuberculosis. The corresponding weight in 1910 was 3 tons 8 cwt.

The number of carcases condemned during the year for tuberculosis exceeds that of the previous year, and partially accounts for the large increase in the weight of meat destroyed. This is the outcome of the issue of the notice prohibiting "stripping" during the latter part of 1910. We are now better able to come to a definite conclusion as to the extent of the disease, as the whole of the carcase is presented for inspection.

The large increase in the quantity of fish destroyed was caused by the excessively hot weather and by the railway strike. Large quantities of fish were deposited in Leicester because of the inability of the railway companies to unload elsewhere, and the market was consequently glutted. The weather being hot, and ice unobtainable, the fish could not be kept.

There were six prosecutions during the year for exposing unsound meat for sale, and fines inflicted to the amount of £85 and costs, ranging from £5 to £40. There was also one prosecution for exposing unsound fish for sale, and a fine of 40 - and costs was imposed. One tradesman was cautioned by the Committee for exposing unsound meat in the market.

MARTIN TYLDESLEY, FREDERICK SOWERBUTTS.

Inspectors of Foods.

Town Hall, Leicester, April, 1912.

REPORT

OF THE

HEALTH VISITORS.

(A) MRS. HARTSHORN'S REPORT.

To the Medical Officer of Health.

Sir. -- I beg to present my Annual Report for the year 1911.

BIRTHS.

During the year, 1.238 visits were made by me to births notified by doctors and midwives. Of these 37 were notified by medical men, 475 were transferred to the "Health Visitors," while 41 were illegitimate.

By far the greater number of these have been breast-fed.

In all cases mothers and others having charge of these infants have had written and verbal instructions in the general rearing and feeding of same.

The giving of artificial food, or the discontinuing of breast feeding, arises from various factors, many being from unpreventable causes. In 109 cases the mother has returned to work.

In all cases a special printed handbill is left dealing with the "danger of fire to young children."

RE-VISITS.

1.615 re-visits have been made during this period to note progress of child and to observe the carrying out of instructions.

DISCHARGE FROM EYES.

64 babies had discharge from eyes. All but two were of a mild character. These were medically treated and recovered.

FINAL VISITS.

826 visits have been made at end of twelve months from date of birth. In 549 cases the infants were alive, and with few exceptions were doing well.

In 158 instances the address had been changed and the case lost sight of: 14 cases had left town or country; while 105 had died before attaining the age of twelve months.

PHTHISIS.

315 first visits have been made and 16 re-visits to persons suffering from phthisis. Instructions in all cases have been left with regard to minimising the infection, etc. Sputum flasks or cups have also been left where necessary or desired.

SPECIAL COMPLAINTS.

49 visits and re-visits have been made to filthy homes—reverminous heads, filthy bedding, neglect of children, immorality, etc. Certain of these were referred to the R.O., C.O.S. or N.S.P.C.C. according to the merits of the case. One was committed to prison for neglect of children.

WORKROOMS.

28 workrooms and cafes, where female labour is employed, have been visited and generally found to be satisfactory.

HOMEWORKERS.

The homes of 61 outworkers have been inspected, most of which were fairly satisfactory.

I attended Milk Depot during the summer vacation of the manageress, doing alternate duty.

H. HARTSHORN.

Town Hall, Leicester, April, 1912.

(B) MISS J. WHYTE'S REPORT.

To the Medical Officer of Health.

Sir.—I beg to submit the following particulars of work done by me during the past year, 1911:

BIRTHS.

1,162 births were notified in my district. On 41 of these notifications a special request was made not to visit, but all the

remainder, 1.121 in number were visited at least once. In 21 instances the baby was found to be dead when the visit was paid, due in most cases to premature birth. 209 cases were passed on to the Voluntary Health Visitors.

There has been a considerable increase in the number of notifications of births during the three years I have worked for the Sanitary Committee, viz.; in 1909 the number was 811; in 1910 it was 1090; in 1911 it was 1162. 31 of the births were illegitimate children, and special visits were made to these to ensure proper care and feeding.

DISCHARGE FROM EYES.

26 cases were found to have some discharge from one or both eyes; these were not serious. Two had ophthalmia and were treated by private doctors on the advice of the midwife; both recovered in a very short time by being treated so promptly.

The majority of the babies are breast fed, but as many of the mothers have to return to factory work the baby has to be partly artificially fed. A number of these are given dried milk, which is generally advised.

RE-VISITS.

2248 re-visits have been made during the year to note the progress of the child, and to see that the advice given was being carried out.

FINAL VISITS.

737 visits were made when the child reached the age of twelve months. The majority of these were healthy children, 128 others who had been first visited twelve months before had removed, and were lost sight of. 105 others had died before reaching that age; whilst 120 were taken over by the Voluntary Health Visitors, and therefore no final visit was paid by me.

DIARRHŒA DEATHS.

Owing to the increased number of infantile deaths from epidemic diarrhea during the summer, 40 special visits were made to the homes where such deaths had occurred to ascertain the home conditions and the feeding of the children. The majority of these had been artificially fed.

PHTHISIS.

227 visits were made to phthisis cases. 148 re-visits were made to ascertain that instructions were being carried out. Advice was given with regard to the prevention of spreading infection, literature and sputum bottles being left.

SPECIAL VISITS.

41 visits and re-visits were made to homes kept in a dirty condition: a few of these showed some improvement after repeated visiting. 19 visits were made to children reported to be neglected; some of these reports were unfounded, and a few I reported to the Inspector of the N.S.P.C.C.

WORKROOMS.

93 visits of inspection were made to workrooms, and all were found to be satisfactory. 75 visits were made to homeworkers. In three cases the homes were in a dirty condition, and in seven instances phthisis existed in the home.

MIDWIVES.

Two afternoons were occupied in assisting the Medical Officer of Health with the inspection of midwives, and special investigations were made in one case in which the midwife was afterwards struck off the roll.

LEAVE OF ABSENCE.

I desire to take this opportunity of thanking the Chairman and members of the Sanitary Committee for their kindness in granting me leave of absence for the purpose of training for the certificate of the Central Midwives' Board. This certificate I was successful in obtaining. During my absence my sister, Miss J. S. Whyte, carried on my work.

J. WHYTE.

Town Hall, Leicester, April, 1912, Cert, Roy San, Inst., C.M.B.

REFUSE DISPOSAL DEPARTMENT.

Report of the Superintendent, Mr. J. L. FREER.

I beg to submit the following particulars of work done in the Refuse Disposal Department during the past year, 1911; -

Population of Boro	ough	 	227.634
Area (in acres)		 	8,586
Miles of Streets		 	185]

The House Refuse of the Borough is all collected by Corporation workmen, with the exception of one small district (Knighton) which is still scavenged by contract. Almost all houses are now provided with the portable covered galvanised iron bins, of which there are 54,702. The Borough is divided into seventeen districts. The men work in gangs of six, with two horses and carts to each gang. Each gang is able to collect fifty-one loads per week. The wages are 26s, per week for collectors and 27s, for drivers; the latter have to attend to their horses, whilst the collectors wash the carts and clean the harness. Drivers required for Sunday stable duty are granted an extra shilling.

Ash-pit and Trade Refuse and Stable Manure is collected as follows:—The town is divided into four districts. There are four gaugs of four men each, with two horses and carts to each gaug. The men are paid 5d, per ton of ash-pit refuse collected, and 5d, per load for trade refuse and stable manure, and their average earnings are:—Collectors, 30s, per week: drivers, 32s, per week. The drivers get the extra 2s, for attending to their horses and harness.

The Plant consists of 62 carts, 47 railway wagons, 3 slop carts, and 1 tip wagon.

The number of men employed is as follows:

Portable Ash-bi	n Men		 	85
Ash-pit Men			 	16
Foremen			 	2
Wagoners			 	4
Wharf Men			 	8
"Tip" Men at	Destruc	tors	 	4
Old Men, Sortii	ng Refu	se	 	:}
Tota	ıl		 	122

The number of horses is 43.

	1911	1910	
Portable Ash-bins collected weekly	54,702	53,696	1,006 more
Portable Ash-bins collected twice a week	480	470	10 more
Ash pits emptied every 8 or 10 weeks	671	678	7 less
Manure-pits emptied at short intervals	228	225	3 more

AMOUNT OF REFUSE COLLECTED.

			Tons.	Toxs.	Tons.
From Portable Ash-bins			36,662	37,373	711 less
From Ash-pits			5,648	5,818	175 less
Trade Refuse		•••	1,919	1,869	50 more
Various Refuse (Specials)			167	173	6 less
From Knighton District (He	use Re	fuser	2,106	2,362	256 less
Total Tons		4	16,497	47,595	1,098 less

Of the above quantity, 2,309 tons were taken to Manure Wharves and Tips: the remainder was burnt at the Destructors. The amount of stable manure collected was 5,593 cart loads.

The sales of manure during 1911 were as follows:

	Toss.	£		r (
507 Railway Wagon Jones, weight	 3.741	506	1()	()
12 Boat loads	17()	7.1	1]	()
92 Cart loads	() :1	10	1.1	6
Total				
Previous year	 1,599	631	19	1)

TRADE REFUSE.

3,802 loads of trade refuse (weight, 1.919 tons) were removed and taken to the Destructors: the payment received amounting to £475-5s, 0d.

[Note.—A charge of 2s, 6d, per load is made for collecting and burning trade refuse, or 2s, per ton for burning only.]

DILAPIDATED DUST-BINS.

2.247 dilapidated dust-bins were reported: these are renewed by the landlord.

"TATTING."

The saleable articles picked out of the house refuse are sold, and one-half of the proceeds is divided amongst the Ash-bin men and the Destructor firemen, the other half being retained by the Corporation. The amount received by the men averaged 6s, 6%d, per head per quarter.

HOSPITAL SATURDAY SOCIETY.

All workers in this department subscribe one peuny weekly, the total amount raised last year being £26–12s, 9d.

DESTRUCTORS.

AMOUNT OF REFUSE RECEIVED AT THE DESTRUCTORS.

Delivered to		Nedham Street.	Mill Lane.	Lero.	West Humber- stone.	Total.
Destructors.		Tons.	Tons.	Tons.	Tons.	Tons.
By Corporation		10.509	11,121	11,959	10,299	44,188
By Tradesmen	• • •	356	881	911	60	2208
Total for 1911		10,865	12 302	12.870	10,359	16,396

J. L. FREER.

Superintendent.

STREET CLEANSING DEPARTMENT.

Report of the Superintendent, Mr. H. F. WIGFIELD.

The following is a resumé of the work carried out by the above department during the year 1911: -

STREET CLEANSING.

The particulars of the streets swept are as follows, viz.:

Once per week	 	Hand swept. 44 miles	Machine swept. 15 miles
		16 .,	
Three times per week	 		7
Four	 	1^{1}_{1}	<u>·)</u>
Six	 	1 ,.	10

Upwards of eleven miles of streets are also hand-swept on Sundays.

The total length of roads swept is 113 miles.

The number of gullies emptied was 98,241, as compared with 100,650 in 1910. This difference is accounted for by the very dry summer in 1911.

The total number of streets swept remains the same, viz., 894, made up as follows:—

Number swept once a week, 539; twice per week, 196; three times per week, 66; four times weekly, 18; six times, 75; 78 streets are also hand-swept on Sundays. Thus a length of 239 miles is down to be swept each week.

In addition to the above streets, 240 Courts have been cleansed an average of once per week during the year.

Loads of sweepings collected: dry, 7,966; sludge, 4,744; a total of 12,710, as compared with 12,955 in the previous year. This reduction is again due to the extraordinary dry weather experienced in 1911.

The number of persons regularly employed in the depart ment is 125.

The conditions of labour and the rates of pay remain the same as in the previous year, viz.: 27s, per week of 54 hours on day work, and 48 hours on night work.

SANDING AND GRAVELLING.

The number of loads of sand and gravel spread during the year was 1.547, against 1.692 in the previous year.

SNOW REMOVAL.

Not a single fall of snow of any consequence took place during the year under report.

In 1910, the extra cost over our own staff was £118 16s, 4d., and in 1909, £262 4s, 6d.

STREET WATERING.

There were eight hired horses engaged in street watering during the past summer: the same number as in the previous year. In addition to the above, four of our own men and horses were engaged in this work in dry weather.

The watering done by the Tramways Department with the three tanks was as follows:—

19)11.		Loads Spread.	Quantity in Gallons.	£	s.	d.
April			364	655,200	42	9	4
May			621	1.117.800	7.2	!1	()
Jime			550	000,000	64	*)	4
July			817	1,470,600	95	()	4
August			481	865,800	56	2	+
Septemb	er		494	889,200	57	12	8
		-	3,327	5,988,600	388	*)	()
Previous	year		2.27()	4.086,000	264	16	8

The watering tanks work to instructions supplied daily by this Department. The cost of watering last year was considerably in excess of the average owing to the exceptional weather experienced. In 1906—the last very dry summer we had—two of these tanks spread 5,505,100 gallons of water. Seventy-six maeadam roads were treated with 115 tons of calcium chloride at a cost (exclusive of carting and spreading) of £307–5s, 0d., 43 roads were treated with granular calcium at a cost of £199–19s, 6d.; and 33 roads treated with liquid calcium cost £107–5s, 6d. In 1910 about 80 tons of calcium chloride was spread at a total cost of £204–1s, 1d.

ANNUAL STATEMENT OF RECEIPTS FROM CONVENIENCES.

Convenience,		Amoun	t Re	ceived.	Amoun Previe		
		£	٧.	d.	$\tfrac{h}{2\omega}^A$	۸.	d.
Horsefair Street (Ladies)	122	19	$[\ ()\]$	 122	10	1
Belgrave Gate (Ladies)		1	()	.)	 1	()	S
Belgrave Gate (Gents)		1()	16	8	 [()	S	6
Town Hall Square (now-	0.050	d)			 .)	\Box	()
Humberstone Gate		131	7	•)	 110	1	[()
Waterloo Street		•)	1	1	 •)	9	11
Haymarket		6]()	1	 ()	17	8
Northampton Square		6	()	•)	 ()	(;	7
Russell Square		.)	.)	:)	 •)	10	8
Infirmary Square		.5	9	9	 *)	17	.)
		£293	8	.)	£276	()	7

The number of persons using the W.C.s at Humberstone Gate Convenience was 19.674, and 11.852 persons made use of the Lavatory accommodation, the amounts taken being £81–198, 6d, and £42–158, 3d, respectively.

In 1910 the number of persons using the W.C.s was 16.195 and 10.263 patronised the Lavatories.

At the Ladies' Convenience, Horsefair Street, the amounts taken were as follows: Lavatories, £5-15s, 7d.; Care of Parcels and Bicycles, £9-5s, 9d.; Use of W.C.s. £107-18s, 6d.

The takings at the Humberstone Gate Convenience shows an increase of £21-2s, 4d, over the previous year.

ROLLING STOCK.

Street sweeping earts, 18; sludge earts, 24; market eart, 1; orderly bin eart, 1; gravel earts, 7; watering earts and vans, 23;

orderly trucks, 10: gravel trucks, 7: snow ploughs, 9: channel scraper, 1: snow scrapers, 5: horse brushes, 14: dray, 1: a total of 121 vehicles,

WORKSHOPS.

As in the previous year 11 men are employed in the workshops, viz.: I blacksmith: I joiner: 2 wheelwrights: I painter: 1 railway wagon repairer: and 5 labourers.

These men carry out all renewals and repairs, both in the Cleansing and Refuse Collecting Departments—a total of 237 vehicles, including 47 railway wagons.

HOSPITAL FUND.

All adults in the Department subscribe one penny weekly, and all boys one penny per month to the above fund: the amount subscribed last year being £23 46s, 8d.

The loads of material handled during the year were as follows:—

tollows :—		1911.	1910.
Sweepings collected (dry)		7.966	 7.453
" " (sludge)		4,744	 5.492
Horse Manure collected (orderly bo	xes)	920	 897
Market Refuse		861	 898
Horse Manure, re-carted to gardens		5:34	 420
Sweepings		676	 713
Loads of Snow removed			 976
Loads of Gravel spread		1547	 1.692
Loads of Water spread (our carts)		17,344	 7.438
Miscellaneous		902	 850
Stable Refuse to Jarvis Street		312	 312
		35,806	27,151

The increase of 8,655 loads as compared with the previous year is more than accounted for by the increase in the loads of water spread.

H. F. WIGFIELD.

Cleansing Superintendent.

APPENDIX IX.

STATISTICAL TABLES.

For List see beginning of Report.)

MUNICIPAL WARDS. TABLE 1.

Area, Number of Inhabited Houses and Population.

Population Census 1911.	(8)	57.04	1276	13254	14594	12121	†9±8	21711	2571	1:364.5	÷::::::	20699	18091	186333	23717	14931	[1303]
No. of Persons per Tenement Census 1911.	(-)	6+.+	4.50	1:5:+	<u></u>	†9. †	4:35	67.+	0+.+	†∷+	7.7.+	4.00	+::+	+1.+	7.+5	4.50	+.68
Inhabited Inhabited Tenements Guring during Ito years.	(9)	506		•	<u>-</u>	:	6:7	100	677	-	:	:	:	:	:		# * * * * * * * * * * * * * * * * * * *
Inhabited Tenements during 10 years.	(4.1	:	•	308		777	:	:	•	:	+0x -	0.80	6533	593	400%	618:1	()()+
No. of Inhabited Tenements Census 1911.	(4)	605	2007	3097	33 33 33 33 33 33 33	3691	19.59	2795	1695	7818	5557	98:++	3699	3929	5359	3555	÷÷÷
No. of Inhabited Tenements Census 1901.	6	x 20x	5++5	2789	3594	3569	288	2760	1921	3.13 3.13 3.13 3.13 3.13 3.13 3.13 3.13	8713	37.56	3040	3336	+5335	2236	50:33
Area in Acres.	Û	X	<u>- 5</u> 55	+177	Ξ	550	9 -	1+1	350	028	<u>-</u>	- 68 - 68	101	1-XX	705	016	1530
				:	:	:	:	:	:	:	÷	•	:	:	:	:	:
				•	:	:	•		•	:	:	:	:	Ще		:	:
WARD.	(1)	Martin's	Newton	St. Margaret's	Wyggeston	Latimer	Charmwood	Wyeliffe	De Montfort	The Castle	Westcotes	The Abbey	Belgrave	West Humberstone	Spinney Hill	Knighton	Aylestone
			તાં	??	÷	٠.;	6.	1-	X,	c:	-0.		ا <u>ن</u> ا	13.	_	<u>.</u>	16.

	years
	previous
	and
	1911
	2.
	Ward
2	1 year in each Municipal Ward in 1911 and previous year
ABLE	each
-	2
	year
	_
	ths under
	Deaths
	and
	Deaths,
	Births,

	Tyear, I	
161	Potal series.	11111111111111111111111111111111111111
	Total safraths.	91 81 4 4 91 4 8 4 4 8 6 4 91 91 4 12 12 13 13 13 14 14 15 15 15 15 9 1 1 1 X 83 12 8 6 91 8 X 2 12 15 15 15
	L'Aost.' Destips muder	
0161	Total Centils.	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Total Births,	
	L'Zegu: Deaths under	
0061	Total Deaths.	0. 12
	Total Listers.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Т хеят. Веяфя инфет	16 4 0 6 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6
8061	Total Deaths.	
	Total Births,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Deaths under I year.	- 4 5 2 8 8 1 2 4 4 5 4 5 4 5 6 6 8 8 9 1 5 6 6 8 9 8 9 1 8 1 4 5 6 6 6 8 9 8 9 9 8 9 9 8 9 9 9 9 9 9 9 9
1907	Total Deaths.	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	IstoT saftriff	
	Deaths under 1 year.	2
1900	Total Deaths.	20 20 20 20 20 20 20 20 20 20 20 20 20 2
_	Total Sirths,	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Deaths under 1 year.	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1905	Total Deaths.	# 1
	Total Births,	0 0 0 4 - 0 1 0 4 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	<u>i</u>	
	NAME OF WARD	St. Martin's St. Margaret's St. Margaret's Latimor Charmood Wyeliffe De Montfort The Castle Westcotes The Abbey Belgrave West Humberstone Spinney Hill Kunghton
	%.	

In order to make a fair comparison, all the deaths at the Borough Asylum and Union Workhouse have been subtracted, though not distributed. The Poor Law Infirmary at North Evington is just outside the Borough Boandary. The deaths occurring there have been distributed in their respective Wards with the evception of those transferred to the Infirmary from the Workhouse; these have been death with in the same way as Workhouse deaths. The births at the Maternity Hospital have been distributed to their respective Wards. -: -: -: -:

TABLE 3.

Vital Statistics in each Municipal Ward in 1911 and previous three years.

and M are and N			1908			1909			1910			1911	
THE CLEAN TO THE	1	Death Rate.	Birth Rate.	Infant Mortality.									
1. St. Martin		17.3	18.4	525	2.6	17.7	117	14.0	2.03	950	11.8		14.5
2. Newton	:	20.2	1.07	239	19.8	24.2	243	16.4	27.7	156	17.8	0.75	195
5. St. Mangaret's		0.21	26.3	179	14.0	2.10	155	13.9	+.+.	185	16.3	6.26	× × ×
1. Wyggeston	•	19.5	35.0	219	18.9	30.5	165	15.6	30.8	181	18.0	35.0	168
5. Latimer	:	15.6	58.8 58.8	152	13.2	24.1	131	14.8	96.9	170	24.8	9.15	135
6. Charnwood	:	11.2	20.9	123	::6	18.8	59	11:3	17.3	149	15.0	16.1	167
7. Wyeliffe	:	16.0	18.8	143	18.0	19.3	181	14.5	19.5	89	14.9	Sign	167
8. De Montfort	:	14.4	2.11	17.9	13.9	15.5	177	10.5	0.11	151	12.6	14.2	11:3
9. The Castle	:	14.8	52.55	131	15.3	s 07	195	13.8	21.3	157	14.8	23.5	152
10. Westcotes		7.1	20.8	107	10.0	19.3	106	s s	19.9	112	11.0	20.6	94
11. The Abbey	•	15.5	↑.÷?	138	135.55	24.1	139	F. 6	2.95	108	10.5	10.00	108
_	:	15. X.	28.5	120	13.1	0.17	106	10.5	6.16	115	11.7	15.151	Y.
13. West Humberstone	:	15.x	 	120	s.s	1.17	136	11.0	61.86	93	13-2	17.7	145
92	:	10.8	21.9	27	10.3	21:3	105		18.4	7.9	6.6	18.9	99
15. Knighton	:	ည ဒ်႑	19.3	09	. i.s	17.71	99	0.2	15.7	7.1	7.	0.8.0	6:1
16. Aylestone		10.3	् ज	109	11.1	53.8	116	107	55.5	115	10.2	15.4.1	7.6
Whole Borough		12.98	53.64	129.7	12.90	22.23	1266	11.29	21.66	126.4	13 40	12.94	130.0

The population has been calculated from the number of inhabited houses in each ward. Nore.

Wychffe Ward contains the Union Workhouse, and West Humberstone Ward the Borough Asylum. It is not possible to distribute the deaths in these institutions to their respective wards, but they have been subtracted from the wards in question in order to enable a

fair comparison to be made. The population of these institutions (Workhouse, 966: Asylum, 887) has also been subtracted.

The Union Infirmary is just outside the Borongh Boundary. The deaths occurring there have been distributed to their respective wards, with the exception of the deaths of persons who had been transferred to the Infirmary from the Workhonse. These have been treated in the same way as Workhonse deaths.

The Maternity Hospital, Causeway Lane, is in Newton Ward. The births which occurred there have been distributed.

TABLE 4. MUNICIPAL WARDS.

Average Rates for Five Years, 1907-1911.

Average Rates. WARD. Infant Death-rate. Mortality. (=1) (1) (25) St. Martin's ... 13.6 18.8 178 •) Newton 18:2 27:2 194 3. St. Margaret's 15.5 264177 Wyggeston ... 4. 18:3 30.7 193 Latimer .). 14.8 27.1161 Charnwood 6. 11.8 18.7 129 Wyeliffe 7. 15.8 18:5 140 De Montfort... 8. 12.612:4 154 The Castle ... 9. 14:3 22.6 151 Westcotes 10. 9.2 20.8 100 The Abbey ... 11. 11.7 24.8 126 Belgrave 12. 12.2 25.4 106 West Humberstone 13. 10.727:9 117 Spinney Hill... 14. 9.8 2002 90 15. Knighton 7:6 18.0 56 Aylestone 16. 10:4 24.1 104

MUNICIPAL WARDS. TABLE 5.

Zymotic-rates, Diarrhœa-rates and Phthisis-rates in 1911.

	WARD.		Zymotic rate, exclusive of Diarrhea.	Diarrhœa. rate.	Phthisis- rate.
	(1)		-(2)	(3)	(4)
1.	St. Martin's		-()	**}	1:8
2.	Newton		1:8	.7	2.8
*)	St. Margaret's		1.7	1.()	1.7
4.	Wyggeston		1.4	1:6	1::3
ő.	Latimer		9	1:3	1:5
6.	Charnwood	• • •	-{})	. 7	1:4
7.	Wyeliffe	•	::)	.7	1.()
8.	De Montfort		2	.0	.8
9.	The Castle		.8	1:()	1.8
10.	Westcotes		·6	**)	1:3
11.	The Abbey		:6	·,	.8
12.	Belgrave		.0	••)	•
13.	West Humberstone		.7	1.1	2·1
14.	Spinney Hill		.5	• • • •	.8
15	Knighton		••)	•()	· 1
16.	Aylestone		·*)	• 7	· -
					1

N.B.—The deaths occurring in the Leicester Infirmary have been distributed to their respective wards. Those occurring in the Workhouse and in the Borough Asylum, have had to be excluded, as the addresses of the patients are not obtainable. In the case of Wards 7 and 13 a deduction has been made from the population on account of the inneates of the Workhouse and Asylum respectively.

The Union Infirmary is just outside the Borough, and the deaths there are distributed to their respective wards, with the exception of the deaths of persons transferred to the Infirmary from the Workhouse. These have been treated in the same way as the Workhouse deaths.

TABLE 6. Deaths in each Ward from all causes in 1911.

Total.	0	55 51		161	÷1 1:1 1:1	7. ??	1.50	257	35	161	546	-505	611	0357	0 12	<u> </u>	==	1	9	
.snoislu?no')	<u>z</u> ,		21	J.	÷	1.7	::	quant		_	-	೧೦	u-pe	1	i .∵		:	:		
Other. Causes,	<u>-</u>	?1	96	_	155	991	x	12	69	10.1	7.	153	;; ;;	195	11	113 37.	:£	1.	1-	
Respiratory Disenses.	- 1 - ma	÷1	~	30	0+	20 7.1	21	17		÷ -	1.0	71	÷;	\$0 00	2.5 	γ,	1.9	:	· (*	
.sisidid4	- (34)	17.	97	ŝi	9	97	21	11	9	1.0 0.1	===	1-	21	 	0.1	3	ۍ.		17.	
Diarrhea.	<u>:</u>	_	1 -		71	20 60 60	9	s	Ċ	<u>.</u>	X		9		Ġ.		<u>ವ</u>			
Total	(14)	:	17	54 65	<u>- 1</u>	1 7	∞	+	21	11	<u>+</u>	:: ::	9	13	21	::	-	-	:	_
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Typhoid Pever.	15)	:	:	٦ı	33	:	:	:	_		:	:		_	?1	:			:	
Diplitheria.	(11)	:	71	:	:	ಣ	-	-	:		9	ទា	î	:	71	_	:	:		my automorphic
yniqoodW Jlyno⊖	(16)		÷÷	10	œ	Ç	-+	÷1	_	٦ì	:0	7	٦ì	2.1	_	:			:	
Scarlet Fever. —	(4)	:			_	:	_	:	:	:	part and	:		ಣ	:				:	-
Measles.	2	:	10		1-	1-		:	:	9	ಣ	10	ಣ	9	10	÷1	Ç1		:	
Smallpox.	(2)		:	:	:	:	:	:			:	:			:	:		:		
Total all ages.	(9)	57 57	99!	217	263	255	158	261	94	203	760	212	681	303	555	1111	117	x	29	-
Over 60 years.	3		0+															1-	÷1	
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Deaths in Institutions have been subtracted from the Wards in which the Institutions are situated; except in the case of rhe Workhouse and Asylum, the deaths have been distributed to the Wards to which they belong, with the exception of those transferred to the Poor Law Infirmary from the Workhouse; these have been deaft with in the same way as Workhouse deaths.

TABLE 7.

			Death-rate		Deaths		De	Death-rates per 1000 persons living from:	. 1000 регзон	s living fre	-: mc		
TOWNS.		Estimated Population 1911.	(Corrected for Institutions only).	Birth-rate.	under Lyear per 1000 Births.	Measles.	Scarlet Fevor.	Diphtheria.	Whooping Cough.	Enteric Fever.	Diarrheas and Enteritis. (under 2 years).	Principal Epidemic Diseases.	
London	:	4,521,301	15.0	\$.	150	0.57	0.04	10.1	0.23	0.0:3	- 8	0.10	
Birkenhead	:	131,325	15.6	58.0	134	$\frac{\circ}{8}$	0.03	61.0	0.54	20.0	†9.1	5:55	
Birmingham		525,903	16.8	28.1	164	0.57	0.15	0.15	0.19	90.0	×9.1	5.74	
Blackburn	:	133,153	16.1	21.5	<u>x</u> x	0.23	0.08	0.51	0.41	20.0	1+.1		
Bolton	:	181,192	1.5:9	\$55.2 8.55	16:3	0:34	0.12	0.23	80.0	0.13	1.87	5.7.	12
Bradford	:	288,695	6:41	19.0	138	†().()	0.03	21.0	0.33	0.15	0.08	0†.1	2
Brighton	:	131.441	13.8	2.61	86	0.02	0.02	80.0	0.12	0.05	0.08	1.05	
Bristol	:	357,493	15.1	3. S.	-	0.40	10.0	0.11	0.+0	†0·0	96.0	2.01	
Burnley	:	106,566	<u>\$</u>	÷;;	910	+9.0	10.0	0.50	0.50	SO.0	++.;	3.69	
Cardiff	:	182.734	0.†-	56.0	13.5	+0.0	0.08	0.50	0.50	0.03	98:1	5.00	
Coventry	•	107,307	<u></u>	0.17	101	0.61	65.0	91.0	0.58	0.01	0.73	÷0.5	
Derby	:	123,637	÷+	53:0	÷ ÷	0.45	0.05	61.0	61.0	90.0	 89:0	1.50	
Gateshead	•	117,092	10.1	30.5	136	0.67	0.0:3	0.25	tē.0	0.05	1.17	 	
Halifax	•	101,464	15.2	5.81	15:3	20.0	0.08	0.55	0.56	0.11	0.00	6.6.1	
Huddersfield	:	108,157	15.0	2.61	1355	0.16	0.14	0.50	0.10	20.0	0.83	1.50	
H-1]	:	278,984	16.1	58.6	155	0:30	0.05	80.0	0:30	÷::	86:1	3.06	

										1:	23									
	1.56	3.07	2.4.5	0.00	7.07	<u>-</u>	5.5.5. 5.5.6.			90.6		-	5+.5	₹	1-	2.0.2		<u> </u>	÷:30	\$ 0.00 \$ 0.00 \$ 0.00
	68.0	96.1		<u>6</u> €: I	÷8.0	(X.)	<u> </u>	<u>;;;.</u>	0.1-1	<u>-0.1</u>	1:30	S	1.51		<u>0:</u>	+::-	<u>(.</u> 6.1	2.65	<u>::</u>	÷ -
0.05	0.04	10.0	1().()	0.08	†().()	20.0	0.11	0.05	0.11	90.0	11.0	? I · ()	80.0	20.0	0.03	(:0.0)	60.0	0.11	0.0.5	I ().()
()::::	0.19	C:35	()-5()	†2.0	£ † ; ; ; ;	++.()	0.15	60.0	11.0	+().()	0.18	0.1:3	91.0	†I.()	0.15	0.21	60.0	0::31	0.65	+1.0
+:::()	0.09	91.0	0.15	0.56	†I:0	0.10	0.15	20.0	0:31	†1.0	0.27	0.13	0.53	01.0	$\frac{\circ}{\infty}$	60.0	0.0	S	∷	[†:()
01.0	0.04	0.17	90.0	20.0	0.00	0.51	(:().()	0.0:3	60.0	:	0.16	0.15	60.0	90.0	+().()	0.01	0.04	0.56	0.02	70.0
0.15	0.31	7.4.7	24.0	92.0	24.0	0.00	0:37	0.45	<u>21.0</u>	0.80	0.04	0.63	():4:5	+1.1	80.0	0.37	0:35	()+()	0:35	87.0
55.	132	†:1	1.5	169	98:1	<u></u>	162	160	126	14.5	17.5	101	0;†1	0+1	13.	1+1	021	505	<u></u>	136
2	22.7	30.5	26.5	<u> </u>	50.0	÷.:-:-	5.45	2:3.7	55.0		÷÷÷÷	3.5.6	27.3	S.1.3	23:9	30.5	÷:::-	?:	6-67	1.67
+:91	13.3	5().()	0.71	†·61	1.91	$\frac{\overline{\cdot}}{\dot{-}}$	1.91	9.71	-	17.5	6:91	1.5.0	1.91	16.1	15.5	1.1	1.7.	6-61	6.21	16:5
7967	227,632	247.566	716,180	105.125	267,116	121.677	260,425	147.7.54	232,253	112,144	117,195	153,809	231.624	455.817	119,386	108.850	109,100	235,051	151.286	115.180
•		:		:	тпе	:	:	:	:	:	:	:	:	:	:		-:	:	-:	-: "
	Leicester	Liverpool	Manchester	Middlesbrongh	Newcastle-on-Tyne	Norwich	Nottingham	Oldham	Portsmonth	Plymonth	Preston	Rhondda	Salford	Sheffield	Sombampton	South Shield,	Sto: kport	Stoke-on-Trent	Yunderland	Swansea

^{*} Croydon. West Ham, and other Boroughs in Greater London have been excluded as not being strictly comparable with the great provincial towns.

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S	No. of Ward.	1905		1904	1905	1906	1907	1908	1909	1910	1161	Deaths from Phthisis in 10 years.	Average Annual Phthists Rate.
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TABLE 9.

LEICESTER BOROUGH.

Showing estimated Population, Marriage-rates, Birth-rates, and Death-rates (General and Zymotic) per 1000 living during the last 67 years, 1845-1911.

Year.	Estimated Population.	Marriage Rate.	Birth Rate.	Death Rate.	Zymotic (Death) Rate
(1)	(2)	(3)	(1)	(0)	(47)
1845	54,787	21.04	10.11	30.85	9.07
1846	55,707	21.00	39.72	29:18	8:11
1847	56,696	18.80	35.36	$\frac{25}{25} \frac{10}{69}$	1:12
1848	57,705	20.86	34.71	25.77	5.87
1849	58,736	21.58	36.96	28.73	7.05
1850	59,738	24.04	37.45	23.64	1:13
1851	60,760	21.11	40.11	25.57	5:48
1852	61,167	22 96	38.83	28.81	8:12
1853	62,181	22.90	36.71	27:02	5.45
1854	62,903	20 40	39 06	$\begin{array}{c} 27.02 \\ 25.11 \end{array}$	$\frac{5.65}{6.65}$
1855	63,624	19.14	36.16	$\begin{array}{c} 25.11 \\ 23.55 \end{array}$	$\frac{6.65}{2.87}$
1856	64,366	$\frac{15.14}{20.02}$	37.32	$\frac{25.55}{21.16}$	3.10
1857	65,119	20.60	37.48	$\frac{21.10}{27.58}$	8.19
1858	65,835	19.14	34.54	28.76	
1859	66,663	22.56	37.77	$\frac{26.70}{24.59}$	8.07
1860	67,456	19.8)	38.05	$\frac{24.59}{20.47}$	4.99
1861	68,638	13.58	37.01	1	1.27
$\frac{1801}{1862}$	70,986	21:30	$\frac{37.01}{38.07}$	25.25	5.71
1863	70,986 73,413	25.74	$\frac{38.07}{40.00}$	23.38	3.01
1864				29.95	7.96
$\frac{1804}{1865}$	75,922	25.68	41.01	26.96	5.41
$\frac{1866}{1866}$	78,516	25.38	11.09	25.02	5.20
	81,197	24.94	42.02	23.33	3.37
1867 1868	83,970	2248	41.66	24.59	4.31
1869	86,837	22.62	41 32	28.15	7.88
1869	89,804	21 12	41.87	25.60	5.10
$\frac{1870}{1871}$	92,873	21.22	40.90	27.33	7:24
1872	95,823	23.06	41.55	26.07	5.83
	98,251	23 50	42.36	26.95	8.23
1873	100,741	24.00	44.14	23.83	5.05
1874	103,294	20.90	42.34	24.29	3.83
1875	105,913	22.36	40.31	27.28	6.26
1876	108,599	22.61	14.02	23.58	5.26
1877	111,355	21-24	42.68	23.48	3.21
1878	114,182	19.38	41.85	21.89	4.18
1879	117,083	19:48	40.11	22.64	3.00
1880	120,059	19.60	4()·()4	24.73	6:48
1881	123,146	18.66	38.26	21:55	4:45
1882	126,275	19.02	38.46	20.04	3.23

TABLE 9.-Continued.

Year.	Estimated Population.	Marriage Rate.	Birth Rate.	Death Rate.	Zymotic (Death) Rate
(1)	(2)	(3)	(1)	(5)	(6)
1883	129,483	18.64	37:26	19:18	2.56
1884	132,773	17:34	36.53	22:12	4.20
1885	136,117	16:36	34.39	19:39	3.32
1886	139,606	17:46	31.80	19.62	2:81
1887	143,153	16.60	32.79	19:10	3.05
1888	146.790	15:48	32.79	18:16	2.45
1889	150,520	16.08	31.82	16 63	2:30
1890	154,344	16.52	30.44	17:79	2.18
1891*	177,353†	19.16	33.58	21.22	3.39
1892†	180,550	16.71	32.21	18.00	2.57
1893	183,900	15.85	32.65	19.72	3.56
1894	187,250	16.70	32.01	14.57	1.93
1895	190,600	16:41	31.28	17:41	3.01
1896	194,100	17:52	32.00	16.88	2.93
1897	197,600	16.78	31.63	17.98	1.97
1898	201,250	17.78	30.56	17:29	3:41
1899	204,900	17.58	30.61	18:18	3.41
1900	208,600	17:30	29.75	17.87	3.60
1901	212,498	17.17	29 03	15:71	2.34
19028	213,974	16:36	29.50	14.82	1.56
1903	215,461	16.56	27.93	14.22	1.48
1904	216,958	17 00	27.56	15.05	2.01
1905	218,464	17.26	26.95	14.01	1.69
1906	219,980	16.16	26.66	15.18	$\frac{246}{}$
1907	221,508	16 67	24.98	13:48	.96
1908	223,046	16.03	25 46	13.98	1.62
1909	224,595	15 75	24.18	14.03	1.37
1910	226,154	17:12	23 79	12.40	76
1911	227,634	16.61	22.91	13.40	141

N.B.—The above figures, prior to the year 1890, are those supplied by Mr. J. T. Biggs to the Royal Commission on Vaccination, and are taken from the Commission's 4th Report.

^{*} All figures after 1891 refer to extended Borough.

⁺This is the Population of the extended Borough. The figures in the other columns for same year refer to the old Borough.

The figures for the nine years, 1892-1900, have been revised on the basis of the 1901 Census.

[§] The figures for the years, 1902—1910, have been revised on the basis of the 1911 Census.

TABLE 10.

Number of Deaths from certain specified causes in 1911 and previous years.

TABLE 111.

Showing the Number of Inhabited Houses, Marriages, Births, Deaths, Zymotic Deaths, and Deaths in Public Institutions.

Deaths from	Seven principal Zymotic Diseases.	363	573	580	(14.5	687	669	[5]	667	+66	320	138 138	976	:+::	<u>5</u>	363	30s	[7]	355
Deaths in	Public Institutions.	 	406	<u> </u> +	340	406	543	583	553	62+	583	601	685	299	099	507	GOS	5555	585
ls.	Over 60 Years,	†9¢	+11	689	9+2	2077	202	863	S.5.7	X:5X	954	208	2.68	27	927	952	1073	768	1035
Corrected Number of Deaths.	Under Five Years.	1301	1611	1624	1758	1703	1021	1627	1435	1303	1279	1255	1+8	1397	686	6011	9001	068	365
orrected Nun	Under One Year.	126	1232	1154	- 1288	= <u>8</u> :3	1230	1083	1098	- xc.	176	†96	8633	576	7.20	787	533 233	680	629
0	Total all Ages.	2730	3320	3277	3553	3480	3727	3729	3338	3172	3065	3266	3062	3341	2988	3119	3153	2806	3051
	Registered Births.	5995	5965	6212	6252	6152	6273	6207	6169	63.13	6018	5981	SS SS SS SS	5865	5534	5680	5431	5380	5222
	Mauriages.	1564	1564	1021	1658	582	- <u>8</u> -	1805	1825	1752	1785	5481	-886	1778	1481	1788	6921	1936	1891
No. of	Inhabited Houses.	38.83 88.83	39.43S	40.349	615.14	7+.++	44.585	+ * 88+	15.5.47	47.712	25.5.4x	49.043	49,348	79.492	48.825	†21°6†	50,070	20,898	51,481
	Year,	+632	1895	9681	1891	$\frac{800}{200}$	1899	1900	1061	1905	1903	+0 61	1905	9061	1902	8061	6061	1910	1161

Note.—In 1891 (Census year) the Borough was extended.

No. of Inhabited Houses of old Borough was 29.288; of new Borough, 35,795.

TABLE 12.

Showing the Annual Death-rates of Children, and proportion of Deaths in Public Institutions in a Thousand Deaths, for the past eighteen years.

Deaths in Public Institutions per 1000 of Total Deaths.		140.5	119:2	2:+81	52.5	9.911	1.5.+1	1563	165.6	14.5:3	+e:I	9.7%	5.5.5.1	9.661	\$500.00 \$100.00	162.5	×5001	0.08.	2.161
Deaths of Persons over sixty per 1000 of Total Deaths.	13	206:5		± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	0.005	1.555	937.9	231.4	1.1+6	0.196	3115	9.4.6	6.666	2007	? <u>101</u> ?	305.5	3:40:3	319-6	?:00000 ?:000000
Deaths of Children under five years of age per 1000 of Total Deaths.	(4)	476.5	7:0:27	4950	1.+6+	\$ 68°T	4580	4363	150.0	1.01+	+26:3	?:+x?	6.+18	- <u>x</u> -+	3303	35555	319.0		₹918 10:5
Deaths of Children under one year of age per 1000 of Total Deaths.	=1	355.6	9.128	352.1	362.5	3113	3:30:0	290.4	328:9	327.0	323.6	5.865	x x	596 5	5+()-()	236.2	218:1	545.3	5.5.5.5
Deaths of Children under one year per 1000 Births, Infant Death-rate.	(2)	6:191	500.6	17.08	506.0	1:161	0.961	7.+1	178.6	1533	161:3	161.1	1+6:5	1665-2	1:30:1	1.59.7	126.6	1263	1:30:0
In Year.	-		18.95	90%	1681	x6x1	668	0061	1901	5061	1903	1061	1905	1906	1907	1908	1909	1910	1161

TABLE 13.

Rates of Mortality of Children under one year of age from the chief Infantile Diseases, per 1000 Births.

	_	1906	9.0	1907		1908		1909		1910	-	1911
Disease.	Total Deaths.	Rate per 1600 Births.	Total Deaths.	Rate per 1000 Births.	Total Deaths.	Rate per 1900 Births.	Total Deaths.	Rate per 1000 Births.	Total Deaths.	Rate per 1000 Births.	Total Deaths.	Rate per 1000 Births.
From all canses	67.6	166-2	062	130.1	737	1.50.7	% %	126.6	0 < 9	126.3	629	130.0
Attophy and Debility	151	1.7 	71	+ 0;	113	8.61	11.7	÷:	1	;;; ;;;	1111	? I
Diarboa	223	28.5	99	0.7	103	18:1	5.	16.7	N.	10.7	971	6.27
sionvulsions	62	:: ::	?!	.: ::		15.1	02	<u>;</u> ;	::9	11.1	21	5. 6.
Lung Diseases	113	1.9:3	125	% †1	L L	7:01	16	1.91	16.3	19.1	9.9	12.5
Premature Birth	991	56.6	133	े। हा	==	19.8	106	61	61	? I ??	109	
Tubercuian Diseases	1 0	10	99	6.5	:: -:-	5.1	÷1	0.1:	71	-		0 1
Measles	5.5	<u>:</u>		-		6-9	60 e1	<u>:</u> 1	10	iņ.	13	÷:
Whooping Cough)C	÷ X	<i>c</i> .	9.1	6.	•••	91	1 -	©] ©;	5.6	6:1	9.0
												-

TABLE 14.

Total Deaths, Death-rate, and Percentage of Deaths, from the eight principal groups of Diseases.

				× 06.			1909			1910			1911	
] (SEASE	J		Total Deaths.	Eate per 1000 l Living.	Total Bate Relative Deaths, Living, of Total Deaths.	Total Deaths.	Total per 10001 Deaths, Living.*	Total per 1000 Percentage Deaths, Living. of Total Deaths.	_	Total per 1900 Deaths, Living.	Rate Relative Deaths, Living, ** of Total Deaths.	Total Deaths.	Rate Total per 1000 Beatle, Living.	Relative Percentage of Total Deaths.
Zymotie	:	:	107	1 -	13.0	5.0	7		7. (1)	- - -	7-	298	:). [-
l'annitte.	:	:	٥	00	00.	0	00)	90	0	00.	= = = = = = = = = = = = = = = = = = = =	0	00.	00.
Dietetie	:	 :		-0.1	.	Œ	÷	÷1	4	7.0.	÷1	1	(: ().	• t
(onstitutional	:	:	665	1 	ুল কুন	219	9.7	:: 0)	613	÷1	5.1 	654	·:1	
Local		:	7. 7. 7. 1.	6.0	15.51	1514	÷:	5. 1.	1541	5.4	[- -	11112	. <u>5</u>	÷
Developmental		:	991	1.9	6.1-1	476	6:1). <u>;</u> ()	Z	÷	· <u>·</u>	163	0.2	Ē
Violence	:	:	L	÷;	Ž.	$\frac{9}{x}$	77	71	06	**	:: ::1	88	€	÷1
III-defined	:	:	61	?1	1.9	0+	.	<u> </u>	2			9	<u></u> 1	6.1

* Calculated on the unrevised population.

TABLE 15.

Showing Age-Incidence of Deaths in Leicester since 1894.

Year.	Deaths ur	der 5 years.	Deaths ov	er 60 years.	Total Deaths.
(1)	Number.	Percentage.	Number.	Percentage.	Deaths.
1894	1,301	47.6	564	20.6	2 730
1895	1.611	48:5	774	23:3	3,320
1896	1.624	49.5	689	21:()	3,277
1897	1,758	49.4	746	20.9	3,553
1898	1,703	48:9	773	22.2	3,480
1899	1,707	45.8	897	24·1	3,727
1900	1,627	43.6	863	23:1	3,729
1901	1,435	42.9	827	24.7	3,339
1902	1,303	41.1	828	26.1	3,172
1903	1,279	41.7	824	26:9	3,065
1904	1,255	38.4	950	29·1	3,266
1905	1,148	37:5	897	29:3	3,062
1906	1,397	41.8	871	26.1	3,341
1907	989	33.1	927	31.0	2,988
1908	1,109	35.5	952	30.2	3,119
1909	1,006	31.9	1.073	34.0	3,153
1910	890	31.7	897	31.9	2,806
1911	965	31.6	1,035	33.9	3,051

TABLE 16.

Occupations of Persons aged Ten Years and upwards in Leicester. CENSUS 1901.

MALES.	Number of Persons Engaged.
Commercial or Clerks	2020
Conveyance of Men. Goods and Messengers	6684
Agriculture, on Farms, Woods and Gardens	895
Engineering and Machine Making	2893
Cycles, Coaches and other Vehicles	661
Building and Works of Construction	7006
Wood, Furniture, Fittings and Decorations	1441
Brick, Cement, Pottery and Glass	253
Paper, Prints, Books and Stationery	1603
Hosiery Mannfacture	3282
Other Textile Manufactures	781
Tailors	1129
Boot, Shoe, Slipper, Patten and Clog-makers	17770
Food, Tobacco, Drink and Lodging	5187
All other Occupations	14374
Total Occupied	65979
Retired or Unoccupied	10270
Total, Occupied or Unoccupied	76249

TABLE 17.

Occupations of Persons aged Ten Years and upwards in Leicester. CENSUS 1901.

			No. of I	ersons I	Ingaged.
FEMALES.			Umnarried.	Married or Widowed.	Total.
Midwives, Nurses, etc.			209	2:3()	439
Teaching			989	36	1025
Art, Music, Drama, etc.			203	73	276
Domestic Service, Indoor			4535	364	4899
Charwomen, Laundry, etc.			519	1102	1621
Commercial, Clerks, etc.			491	8	499
Conveyance of Men, Goods &	Messeng	(ers	301	8	309
Chemicals, Oil, Soap, etc.			287	103	390
 Paper, Prints, Books and Stat 	ionery		1()4[200	1241
Textile Fabrics, Hosiery			6522	2585	9107
Other Textile Manufactures			1245	812	2057
– Dēaters in Textiles, Drapers, c	etc.		469	96	565
Dress:					
Tailors	• • •		1102	362	1464
Milliners and Dressmakers			1975	619	2594
Shirt Makers, Seamstresses			294	14()	434
Boot, Shoe, Slipper, Patten,	Clog Mak	zers.	5924	2867	8791
Other Workers			979	392	1371
Food, Tobacco, Drink, and Lo	dging		1953	1327	3280
All other Occupations			661	412	1073
			1		
				-	
Total Occupied			29699	11736	41435
Retired or Unocci	pied		12833	34923	47756
Fotal, Occupied and Unc (10 years old and up	occupied owards)		42532	46659	89191

N.B.—Figures for 1911 Census not available at time of going to press.

TABLE 18,

Number of Persons living at different Age Periods in Borough of Leicester.

06	~~	-	
9	171,624 1,780 21,749 20,331 19,574 18,818 32,212 28,812 17,013 10,976 6,560 3,003 544	211,579 5,278 24,266 21,873 21,431 22,224 41,519 30,405 22,400 14,586 8,377 3,680 773	
02 (09)	5.580 8.0	2200	
0;	10,976	14.586	
\$	17.013	22,400	
30	21 22 23 24 25 25 27	9, 30, 405	
	\$\frac{\pi}{21}	115,114	
13	7. 7.		
9	31 19.5	73 21. E	
ler Irs.	19 20.3	21.8	_
der Und ear, öyen	80 .:1,7	5.45.	
All Ages, Under Under 1 year, 5 years,	624 1,7	676	
A II A	121		
	Census, 1891	. 1901	
1	(Teman)	Fensus, 1901	

Proportion of Persons living at different Age Periods in Borough of Leicester

(expressed as percentage of total population).

06	=	? <u>.</u>	
Ĵ	?≎	e om read parts parts a	
62	1.0		
09	% (?	⊕. ??	
50	: ÷	ý. 9	
0#	1-	10.6	
08	1 -	÷÷	
500	<u>8</u> .	19.6	-
<u> </u>	S. 01	=	
. 01	?!	10.1	
10	11.6 11.2	10.3	
Under		77	
Under 1	Ç1		_
All Ages, Under Ur	100.0	0.001	
V	:	:	
İ	189	3.	
	Fensils, 1891	Census, 1901	

Abstracted from the Census Returns.

N.B. Figures for 1911 Census not available at time of going to press.

TABLE 19.

DATE,			Houses.	Cottages.	Warehouses.	Workshops, &c.	Offices.	Total.
July 1, 1907		0 0	848	2,348	.97	x	?!	3,431
January 1, 1908	:		821	2,384	<u>\$</u>	+:	989	3,393
July 1, "	:	9	839	9.976	19	92	X I-	3.3333
January 1, 1909	o o	•	002	2,147	39	6.7	?!	3,033
July 1, "		•	862	1,993	92	92	x 1-	3.021
January 4, 1910	:	*	715	1,849	ž	29	02	5.78
July 1.	•	•	728	1,536	92	Ξ	+:9	2,515
January 3, 1911	•	•	630	1,325	†::	29	ŝ	2.174
July 3,	•	* 0	979	1,172	()()	06	8.8 8.8	0661
January 2, 1912		0 +	505	898	÷	5.5	(99)	5.75.1

TABLE 20.

Showing mean Weekly Temperature of Earth at Depth of 1 ft. and 4 ft. for the Year 1911.

May					1 foot.	4 feet.	Deaths per week from Diarrhea.
	6				52 0	19.7	
1	13				52.7	50.0	
• 1	20				53.0	50.2	
• 1	27	• •			53.7	50.7	
June	3				56:2	53.0	• • •
•	10				58:5	54.2	1
*1	17				59:5	56.0	2
4.4	24			• • • •	58:5	55.5	
July	1				59.0	55:5	1
: 1	8				61:5	56.0	
• •	15				64.0	57.7	2
19	22				63.5	59.0	
٠,	29				60.5	60.0	4
Aug.	5				64:0	61:5	9
4 *	12				64.0	61:2	20
• •	19				65.7	61.7	38
1 *	26				63:7	62.0	21
Sept.	2				61.5	60.7	25
11	9				61:5	60.2	15
* *	16			• • • 1	60:5	60:5	8
* 1	23				57.5	58:7	6
,,	30				56.0	57 5	-4
Oct,	7				51.7	55.7	2
* *	1 ‡				50.2	54.2	1
1 • •	21				52.2	53.2	
.,	28		9 0 0		50.0	518:2	1

TABLE 21.

Monthly Rainfall and Temperature during 1911 as recorded at the Borough Asylum.

Figures supplied by Dr. J. E. M. FINCH and Dr. J. F. DIXON.

Mona	Ή.	R	ainfall in Inches.	Mean Temperature Fahr.
January			.80	38:16
February			1.72	39:57
March			1.08	40.63
April			1.03	45.48
May	* * *		1:51	54.16
June		•••	1:87	59.62
July			.11	(;4:5.5)
August	g +		2.7.5	(5.5-29)
September			1.44	57.(;;)
October			2.40	47.68
November			2.45	42:3
December			4.57	42.4
Total	Rainfall	in 191		. 22:00

TABLE 22.

List of Registered Midwives practising in Leicester.
(January, 1912.)

Name.		1	Registered No.		Address.
Beck, Ann			3,394	• • ,	9, Spinney Hill Road.
†Blyth, Eliza		.)	2.760		19, Baggrave Street.
Brant, Elizabeth			9,818		29, Derwent Street.
*Brown, Maud E.			25,841		8, Crammer Street.
*Bucklar, A. A.			25,486		87, Laurel Road.
Chamberlain, Elizab	ETH		374		31. Upper Charles Street
Chambers, Prischla			2,906		29, Upper Charles Street.
*FISHER, ROSETTA			\$0,582		30, Friars Causeway.
FREER, MARY ANN			406		52. Marjorie Street.
Gibson, Agnes			10,403		2, Southgate Street.
GAWTHORNE, FANNY			30,974		348, Aylestone Road.
Humpage, Sarah Ann	·		7()		27. Abbey Gate.
Howsam, Miriam			5,223		90, Sylvan Street.
†Howe, Alice Elizabe	TH		4,095		6, Princess Road.
†Перрьемніти, Ерітн	Mary		3,865		144, Narberough Read.
*Hell, Mathda			28,009		37. Denmark Road.
†Hutley, Maria			14,562		16, Glenfield Road.
‡*Harratt, Lizzie Ann	IE		23,568		27, Ross's Walk.
LAPPAGE, MARY JANE			7,772		21. Dunton Street.
Мокк, Епиавени			16,723		75, Upper Conduit Street.
Morris, Elizabeth			799		53, Overton Road.
Noon, L. A			30,688		1. Spence Street.
Рымв, Емил			231		157. Cranbourne Street.
Russon, Emma			6.585		15. Moore's Road.
Shelley, Margaret			57		35, Stanley Street.
Seare, Maria A.			11,811		42, Justice Street.
Weston, Adelaide			689		105, Grasmere Street.
Williams, Kate R.					93, Hartopp Road.
Woodward, Charlot					180, Grasmere Street.
Walker, Emma			4,380		H, Abbey Park Road.
[↑] Wates, Emily			23,731		98, St. Saviour's Road.
	Тот.	ΔL		31.	

Holds Certificate of Central Midwives' Board, Holds Certificate of London Obstetrical Society, Trained at Maternity Hospital, Canseway Lane.

	1911	G	7.1	ග	?1	£.		167	÷0	10	1-	++0
1911.	1919	=	23	ij		53	10	0	::	13	••	191
1898-1911	1909	0	109	21 22	1	<u>;;</u>	10	1(6)	9	19	7	1000
	1908	0	167	58	© :	30	œ	120	ia	is	71	55.5
Fourteen Years,	1907	0	09	+ +	1.	17	ιĢ	13	ਜਾ	17	Ç1	236
e Four	1906	0	O.	5.5	77	112	+	258	77	0	7	916
in the	1905	0	5.53	98	11	50	ნ.	211	27	ा	t-	382
. 23. Diseases	1904	-	35	7	9	6x	14	586	9	1.	10	466
	1903	<u>ក</u> ា	1.7	15	31 80	98	13	133	چ. چ	9	ಣ	338
Z	1905	řē	GO 1.→	11	50	29	12	137	9	7	ŗĊ	359
from	1901	C	<u> </u>	9	155	1-	20	÷:	G	<u>::</u>	7	521
Deaths	1900	0	64	& &	316	-16	56	286	5	11	∞	805
er of I	1899	0	<u></u>	<u>ः ।</u>	?!	× + + + + + + + + + + + + + + + + + + +	31 &	565 5	<u>eo</u>	.	9	724
numb	1898	0	511	7	63	19	25	3.13	G.	7	ទា	712
the		:		:	•	:			:	:		
Showing the number of Deaths from	DISEASE.	Small Pox	Measles	Searlet Fever	Diphtheria	Whooping Cough	Enteric Fever	Diarrhea	Erysipelas	Influenza	Puerperal Fever	Totals

TABLE 24.

Showing the number of Notification Certificates for the principal Zymotic Diseases for the Fourteen Vears, 1898-1911.

1910 1911	0 ==	1013 1350	11 # 546	.) (-	921		158	10	161 170
6061	0	17.6 - 10	0 † [96	961	ſ.	; 1 ! -		17
2. <u>2.</u> 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	0	1206	≎C ≎1	==	162	21	10		:
1901	0	1710	Zi I =	1-	166	10	?1 ?1		:
9061	-	2301	33 23 24	19	25.	10	215	•	
1905	10	1117	17	89	253	<u>;</u>	0.00		
1061	÷ 50 € 50 € 50 € 50 € 50 € 50 € 50 € 50	55	20	† 9	239	16	Z.	0 0	:
806	90+	533	211	rc X	#10		156		
1903	6.	\$ 55	320	70	225	<u>13</u>			•
1901		801	1034	126	18	15	:	*	
1900	0	689	1452	-	308	97	:	:	
1899	С	7-7-1	20°C	162	0.41	<u>~</u>	•	•	:
20.00 20.00	0	6.59	<u>%</u>	1+ 60 61	230		0 0		•
DISEASE.	Small Pox	Searlet Fever	Diphtheria	Enteric Fever	Erysipelas	Puerperal Fever	Phthisis (Voluntary)	(Hospital)	(Poor Law)

Note. Prior to the year 1900 a Local Notification Act was in force, under which first cases only in a house were notifiable. The figures, therefore, prior to that year, refer to infected "houses," not "persons."

Showing Births, Vaccinations, and Smallpox in Leicester, 1838-1911.

TABLE 25.

		Vaccina-					Vaccina-			
		tions	Small-	Small-			tions	Exemp	Small	Small-
Year.	Births.	Registd.	DO2	. pox	Year,	Births.	Registd.	tions	DOX	pox
		Public	Deaths.	Cases				Granted	Deaths.	Cases.
(1)	(2)	and Pvt.				/	and Pvt.			
(1)	(=)	(#)	(4)	(5)	(16)	(7)	18)	(9)	(10)	(11)
		N		1						
1838	1815	Not	11		1875	4270	3527		1	Not
1839	2024	known	50		1876	4781	3426			knowr
1840	1967		56		1877	4753	3653	• • •	6	 12
1841	1972	• • • •	31	• • •	1878	4779	3372		1	8
1812	1942	•••		• • •	1879	4697	31 16	• • •		
1813	2035	• • • •	• • •	• • •	1880	1860		• • •		
1811	2087	• • • •					2886	* * *		1
			9		1881	1712	3417	• • •	2	6
1845	2197	• • •	161		1882	4857	3106		-5	29
1816	2213	• • •	12		1883	4825	1958		3	12
1847	2005		1		1884	4851	1763			
1848	2003		31		1885	4683	1842			8
1849	2171	1613	66		1886	4863	1122			1
1850	2239	1240	5		1887	-4695	471			9
1851	2437	1292	2		1888	4814	314			21
1852	2387	1637	52		1889	4796	172			
1853	2283	1843	11		1890	4699	131			
1854	2467	2275			1891	4790	92			
1855	2301	1771			1892	5816	133		6	38
1856	2402	1771	1		1893	6006	249		1.5	308
1857	2441	1880	17		1894	5995	133			8
1858	2276	2026	53		1895	5962	75			4
1859	2518	1447	3		1896	6212	86			
1860	2567	1766	2	• • • •	1897	6252	81			• • •
1861	2540	1614	1		1898	6152	92	• • •		
			_					1.07		
1862	2723	1388	• • •	• • •	1899	6273	156	167	• • • •	• • •
1863	2937	1608			1900	6207	343	598	***	• • •
1861	3114	1916	104		1901	6169	357	500		1
1865	3226	1183	10		1902	6313	1237	1500	5	18
1866	3412	1641	3		1903	6018	2487	1055	21	406
1867	3496	1544	2		1904	5981	F232	1044	4	321
1868	3588	3379	1		1905	5888	987	1112		5
1869	3760	3560			1906	5865	1073	1080		1
1870	3799	3103			1907	5534	1093	1256		
1.051	*****			Not	1908	5680	659	2401		
1871	3982	3230	12	known	1909	5431	660	2367		
1872	4162	4456	346		1910	5380	561	2335		
1873	4117	3692	2	1,1	1911	5222	175	2964		
1871	4371	3761	_	1	11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,	2000		
101	1.7.1.1	0101								

The figures in this Table prior to the year 1890 are taken from the Fourth Report of the Royal Commission on Vaccination, App. 3, Tables, 5, 6 and 51. They were prepared and handed to the Royal Commission by Mr. J. T. Biggs.

In 1863-61, owing to the Smallpox epidemic which prevailed, there were 1,329 additional public vaccinations performed by the Medical Officers to the Guardians. These were chiefly vaccinations of children omitted in previous years. They are not included in the figures for the two years in question.

TABLE 26. Scarlet Fever Statistics.

	Ac	tual Num Recordec				Bates.		
Year.	Deaths	Cases Notified	Cases removed to Hospital	Deaths per 100,000 Pop.	Cases Notified per 50,000 Pop. \(\frac{1}{2}\)	Cases Removed to Hospital per 50,000 Pop.	Per- centage removed to Hospital	
-11	2.1	£	+1)	(+)	(6)	(7)	151	(9)
1877	1) 1)	0 0	38	29.6		17 1		
1878	12		51	10.5		* * * * * * * * * * * * * * * * * * * *		
1879	105		247	89.9		1055		
1 >>()	119	802	230	99.1	334.1	95.8	28.6	14.8
1 1	184	1065	388	149.5	432.9	157:7	36.1	17:2
1882	7.2	763	4G()	57:1	302.7	182.5	60.2	() · 1
1 ~ ~ 3	91	797	383	70.3	308.9	118.4	18.0	11.1
1 > > 1	63	701	351	17:5	26355	133.1	50:1	8:9
1885	1113	1816	900	82:9	667.6	330.8	19.5	6.0
1886	1.1	817	439	31.5	291.7	156.7	53.7	5:3
1857	έ,	27.2	151	3:5	95:1	52.7	55.5	1.8
1858	1	132	94	2:7	11.8	31.9	71.2	3:()
1589	(5	400	327	3.9	136:3	109.0	79.9	0 [1]
1890	38	516	171	24.6	1,675	152:9	91.2	7:3
1 > 9 1	17	794	636	9.6	224.2	179.6	80.1	·· · 1
1892	11	1331	783	-22 is	367.6	202.4	0.66	30
1893	81	2308	none*	44.()	627:1	попе	none	3.5
1894	30	855	413	16 ()	228.6	110.4	48.3	3.5
1895	1 15	7.23	145	7.8	189.2	116.4	61:5	5.0
1×96	48	2110	1008	24.7	543.8	259.7	17.7	2.2
1897	7.3	1645	1048	36.8	4154	-264.6	63.7	4.4
1898	44	923	699	218	229.6	173.8	75.7	4.7
1899	12	1247	866	20.5	305.6	212-2	69.4	:1 ::1
1960	28	839	571	13.3	200.1	137:3	68.4	3.3
1901	(*	758	185	2:0	178.7	114:3	63:9	-7
1002	11	826	579	5.14	192-91	135.27	70.0	1 ::3
1963	i. [533	130%	6.5	123:9	30.2	24:3	2.8
1904	1		239*	1.8	. 128:2	55.3	431	• 7
1905	36	1117	789	16:5	256:1	169.4	69.4	3 -
1906	52	2301	1471	23.7	525.3	335.8	63.9	2.2
1907	4.4	1710	1196	19.9	386.8	270.5	; 69,9	2.5
1908	29	1206	869	13.0	270.4	194.8	7.7.0	2 · 1
1909	23	1768	1166	10.2	391.6	260.2	65.9	1:3
1910	15	1013	739	6.6	224.1	163.4	72.9	1.1
1911	1	1309	908	3.9	287.5	2000	69.3	• -

Prior to the year 1900 a Local Notification Act was in force, under which first cases only in a house were notifiable. Allowance must be made for this in comparing with recent years.

Smallpox Years. Hospital required during part of year for Smallpox.

The rates for the years 1902 10 have been recalculated on population revised in the light of the 1911 Census.

A diagram illustrating the figures in column 6 was given in the light of the contraction.

‡ A diagram illustrating the figures in column 6 was given in the Annual Report for 1909.

TABLE 27.

Leicester. Scarlet Fever.-" Return" Case Statistics.

YEAR,	1905	9061	2061	1908	1909	0161	1161
Total Cases Notified	1.117	2,301	1,710	1.206	1.768	1,013	1,309
Number of Patients Discharged from Hospital	661	1,385	1.209	158	1.165	x 1-	855
Average Days Stay	1.0+	45.8		1.8+	37.9	9.88	•
Number of "Infecting" Cases	7	104	<u>1</u>	100	%	55	1-+
Percentage of "Inferting" Cases	3.6	7.5	6.5	2.9	1.	ŝ	5.5
Number of Deaths in Hospital	50	25	99	6:	1-	<u>::</u>	9
Case Mortality in Completed Cases	†	9.7	6.7	?! ?!	÷	19.1	02.
					-		

The term "Infecting" Case implies a case which on returning home is followed by one or more further cases in the same house. these cases being known as "Return" Cases.

TABLE 28.

Diphtheria Statistics, Leicester, 1857-1911.

Year.	No. of Deaths.	Deaths per Million Living. (3)	Vear.	No. of Deaths.	No. of Notified Cases.	Deaths per Million Population.	No. of cases Removed to Isolation Hospital.
							-
1857	.)	76	1880	23	87	192	1
1858	+	61	1881	11	63	89	
1859	10	150	1882	.,	38	40	
1860	·)	30	1883	6	26	46	
1861	-1	58	1884	- 11	84	8:3	
1862	·) -	28	1885	14	.).)	102	
1863	<u></u>	93	1886	4	51	29	
1864	·)	26	1887	13	81	90	
1865	3	38	1888	13	67	89	
1866	3	37	1889	1()	84	66	
1867	•)	36	1890	11	7.5	7.1	
1868	10	115	1891	14	65	78	
1869	9	110	1892	10	67	.).)	
1870	1.1	118	1893	20	139	108	1
1871	- - -	7.4	1894	12	66	64	
1872	$\frac{2}{7}$	20	1895	36	75	188	İ
1873	7	(59	1896	53	170	273	
1874	8	77	1897	73	229	374	
1875	7	66	1898	63	218	313	
1876	1()	92	1899	222	892	1083	
1877	()	80	1900	316	1452	1514	
1878	•)	44	1901	155	1034	729	592
1879	11	94	1902	29	320	*135	183
			1903	28	211	129	47
			1904	6	97	27	26
	1		1905	11	173	50	89
			1906	27	315	122	166
			1907	17	178	76	102
			1908	()	123	40	92
			1909	14	140	62	83
		1	1910	11	114	48	7()
			1911	21	246	92	11:3
	-	-					

N.B.—The local Notification Act came into force in 1879, and from that year the number of Notifications (Diphtheria) received are added. The figures after 1894 refer to the extended Borough of Leicester. Prior to 1900, first cases only were notifiable.

The rates for the years 1902-10 have been recalculated from the revised population in the light of the 1911 Census.

TABLE 29. Enteric Fever. Cases and Deaths in past years.

Year. Noti	ses fied. Deaths.	(1)	Deaths per 1000 Pop.	Cases removed to Hospital.†
1884	55 16	.41	·12	
1885 2	16 36	[:59	·26	
1886 1-	41 . 19	[:()]	.1:3	
1887 2	22 31	1:55	••)•)	
1888 2	(6) 32	181		
1889 I	47 22	-97	.11).
1890	65 24	1:()7	1.5	
1891 1	78 29	1:00	.10	
1892	16 17	.04	·()!)	
1893 3	92 47	2:1:3	•• <u>•</u> •.5	
1894 2	15 27	1:15	.11	
1895 2	38	1:30	· <u>·</u> 2()	
1896 2	283 40	1:46	• • •	
1897 2	38	1:08	.10	
1898 / 2	27	1:18	-13	
1899 1	62 28	.7()	.14	1
1900 1	17 26	::}(;	12	
1901	26 20	.59	·()()	60
1902*	81 12	:38	().5	54
1903	58 13	.27	-()(;	24
1904	64 14	-20	.()(;	37
1905	68 9	:31	.()+	-1:1
1906	67	:3()	06	.58
1907	47 5	.21	·() <u>-2</u>	.).)
1908	13 8	(!	-();}	20
1909	36 5	-16	0.2	[!)
1910	36 10	٠ ﴿	·()-1.	26
1911	47	-20	10.	<u>:</u> ;;

N.B.—Prior to the year 1900 the figures indicate first cases only in a house.

The rates for the years 1902 10 have been texised in the light of the 1911 Census.

† Enteric Fever cases were not treated in the Isolation Hospital until the Groby Road Hospital was opened at the end of 1900.

TABLE 30.

Measles. Deaths and Rates in past years.

Year	Deaths.	Rate per 1000 Population,	Quinquennial Average.
1885	.̄) <u>·</u>]	:38	
1886	1:3	:31	
1887	87	.01	15
1888	7.7	.52	
1889	62	41	1
1890	:}()	.19	
1891	84	. 47	
1892	126	·7()	.41
1893	·) <u>·)</u>	.28	
1204	106	·57	1
1895	29	.12	1
1896	120	.62	
1897	12	·()(i	:41
1898	211	1:()5	
1899	*)	.12	
1900	49	.2:3	
1901	17	.08	
1902*	(·)	:34	- (2:)
1903	7.4)	
1904	·)·)	.14	1
1905	.;;}	.2:}	!
1906	80	.*11	1
1907	(i()	.25	39
1908	167	(;·()	TI.
1909	1()()	1.5	
[9]()	13	.0.1	
1911	71	**)	
			<u> </u>

 $^{{}^\}star \mathrm{The}$ rates for the years 1902-10 are calculated upon the unrevised population.

TABLE 31.

Diarrhœa and Enteritis Statistics

Year.	No. of Diarrhœa	No. of Enteritis	Diar plus Et	rhœa iteritis.	Diarı plus Et under 1 ye	iteritis	Wean Temperature 4ft, earth
	Deaths.	Deaths.	Deaths.	Rate per 1000 Pop.	Deaths.	Rate per 1000 Births.	10 hottest weeks of year.
1884	344	13	357	2.7	282	58:1	
1885	186	12	198	1.4	174	37.1	
1886	256	15	271	1.9	240	49:3	
1887	247	10	257	1.7	215	45.8	
1888	148	13	161	1.1	123	25.5	
1889	121	15	136	():()	195	40.6	
1890	218	27	245	1:5	204	4:3·4	
1891	204	22	226	1.2	194	40.5	
1892	214	22	236	1::3	201	34.2	
1893	399	22	421	2:3	356	59:2	
1894	176	17	193	1:0	160	26.6	
1895	369	50	419	2.2	353	59.2	
1896	272	68	340	1:7	303	48.7	
1897	360	112	472	2:3	391	62.5	59.7
1898	323	86	409	2:()	346	56.2	59:3
1899	292	109	401	1:9	334	53.2	61:3
1900	286	90	376	1.8	331	53:3	59.7
1901	224	78	302	1.4	259	41:9	60:1
1902	137	42	179	0.84	1.54	24:3	57.6
1903	133	52	185	0.86	156	25:9	57:6
1904	27.5	35	310	1:43	277	46:3	59.5
1905	211	32	243	1:11	208	35:3	60.5
1906	258	54	312	1:42	266	4.5:3	59.8
1907	7:3	58	131	0:59	108	19:5	57.5
1908	120	(;;)	183	0.82	148	260	58.6
1909	106	29	135	0.60	115	21:1	57.4
1910	70	27	97	0.43	70	13:0	57:()
1911	167	52	219	0.96	180	344	60.2

TABLE 32.

Weekly Deaths from Diarrhœa from 1900-1911.

Week of Year.	the	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	[1910 	1911
25th		*)	1	2	()	()	()	1	()	()	()	2	2
26th		•)	1	;}	1	1	. ()	0	2	()	()	()	()
27th		1	1	2	()	1	1	1	2	1	0	0	1
28th		1	2	1	()	2	;}	1	2	i	1	1	()
29th		12	ŀ	1	3	ō	3	1	()	2	2	()	2
30th		21	1.5	2	1	8	15	2	()	()	1	2	()
31st		16	17	()	()	21	18	3	1	1	3		1
32nd		25	17	0	9	30	33	10	0	10	2	1	9
33rd		27	24	2	9	13	21	18	1	12	ī	1	20
34th		38	22	2	12	31	25	32	1	11	15	3	38
35th		38	27	*)	15	30	25	35	2	13	5.5	()	21
36th		24	29	4	8	24	18	46	1	11	8	4	25
37th		12	16	6	10	24	15	28	2	3	9	13	15
38th		18	G	10	8	13	9	30	7	6	8	5	8
39th		11	8	19	6	8	3	11	9	2	9	8	6
40th		7	10	16	6	7	1	6	13	10	-2	1	4
41st		1	5	19	-2	3	1	8	10	i	1	4 }	2
42nd		2	2	10	1	6 -	*)	1	:)	7	1	()	1
43rd		3	2	8	2	4	1	1	the state of the s	5	3	1	()
41th		1	1	5	0	5	U	1	1	1	U	3	1

TABLE 33. Showing Number of Deaths from Tubercular Diseases in Leicester in past Years.

		Phthisis.'		O: Tuberculo	ther us Diseases.		otal ons Deaths.
	Year.	Deaths.	Rate per 100,000 Population, (3)	Deaths.	Rate per 100,000 Population.	Deaths.	Rate per 100,000 Population,
	1891	181	102	(;9)	38	250	140
	1892	216	119	124	69	340	188
	1893	250	1:30	140	82	390	212
-	1894	207	110	104	56	311	166
1	1895	189	99	141	74	33()	173
	1896	220	113	128	66	348	179
	1897	215	108	128	65	:;4:;	173
	1898	221	109	137	68	358	177
	1899	202	98	129	63	331	161
	1900	230	110	144	(39)	374	179
	1901	271	127	80	38	351	165
	1902+	272	127	86	40	358	168
	1903	266	123	111	51	377	17.5
	1904	353	163	96	44	449	207
	1905	288	132	87	4()	37.5	171
	1906	339	1.54	7.1	32	410	187
	1907	275	124	99	44	374	169
	1908	287	128	104	46	391	17.5
	1909	290	129	82	36	372	166
	1910	281	124	77	34	358	158
	1911	288	126	(;(;	28	354	155

^{*} In comparing the Phthisis figures for the years prior to 1901 with the figures for later years, it will be noticed that an apparent increase in the phthisis rate has occurred. It will also be seen, however, that there has been a proportionate decrease in the rate for "other tubercular diseases." The explanation is that in 1901 a different method of classification was adopted whereby a certain number of cases which had hitherto been classified as other tubercular diseases were transferred to the heading of "phthisis". If the total deaths from tuberculous diseases be considered it will be observed that no increase, but, on the other hand, a decrease has taken place in the jast decade as compared with the previous one.

^{*} The rates for the years 1902-10 have been revised in the light of the 1911 Census.

TABLE 34.

Age and Sex Distribution of Deaths from Phthisis in 1911.

Males.	Females.	Total.
 1.	-	1 1
 1	•)	+ 1
 -	()	<u>-):}</u>
 36	! ()	7.5
 -49	30	8:3
 24	21	4.5
 24	8	29
 12	*)	Lõ
 • • •	· <u>·</u>	1.
 166	122	288
	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Occupations of Persons Dying from Phthisis in 1911.

		М.	F.
SHOE TRADE:			-00-0
Finishers		19	
Clickers		9	
Rivetters		4	
Pressmen		1	
Machinists			9
Warehousemen		I	
Various		14	4
Total in Shoes		.5 l	13
			-
Hosiery Trade*		10	17
Labourers		18	
Clerks		ī	
Tailoring Trade		•)	2
Shopkeepers		.5	
Mechanics			
Cigar Hands			
Cardboard Box Han	(<		

 $^{^{*}}$ A large number of married women are engaged in the Hosiery Trade, but these are not included, for in the case of deaths of married women and widows, only the husband's occupation is registered.

TABLE 35.

Family History of Phthisis Cases Investigated, 1904-11.

Total Cases Investigated.	921	·	160		061	165	70	: :	1011	100.0
Neither Parent nor Brother or Sister Consumptive.	?	+01	106	120	<u>~</u>	665	120	56.4	8601	C:+0
With history of both Consumptive Parent and Brother or Sister.	<u> </u>	x	$\overline{\infty}$	<u>~1</u>	9	×	10	2.5	601	6.3
With history of Consumptive Brother or Sister.	<u></u>	658:	20	:36:	2.9	200	177	\$\frac{\pi}{21}	308	
With history of Consumptive Parent,	- 61 - 121	<u></u>	σ.	90	332	- - - 1	16	+	192	11.5
YEAR.	1061	190.5	1906	2061	1908	6061	1910	* 10:1	Total 1904-11	Percentage

a consumptive parent, and 24:3 per cent. of having had a consumptive brother or sister. In round figures, one-sixth have had a consumptive By adding Column 4 to Columns 2 and 3 respectively we find that 17.5 per cent, of the cases investigated gave a history of having had parent; one fourth had a consumptive brother or sister, and the remainder had neither parent nor brother or sister affected.

^{*} Tuberculosis (Hospitals) Regulations came into force.

TABLE 36. CANCER DEATHS, 1911.

Deaths of Males and Females from Cancer, arranged in age periods and according to parts of body affected.

				o 40 urs.		o 60 ars.	Oye ye:	r 60 urs.	Т	otals.	Both
Purt of Body	affected		М.	F.	М.	F.	М	F.	М.	F	Sexes.
Stomach			1	:;;	8	s	12	1.6	21	27	18
Liver					•)	Ğ		1.1	()	19	28
Intestmes			1		- :	6	2	í		13	1.5
Uterns		1				17		1.1		31	31
Breast				ن .		8		8		21	: 21
Rectum				1	1	-	8	<u>-</u>	12	15	27
Lung							1	1	1	1	2
Bladder						1	2		2	1	9
Tongue					3	1	3		6	1	7
Lip					1		1		2		2
Thyroid					2				2		51
Larynx							2		5		•)
Throat							1		1		1
Esophagus				١	:)	l	1	1)	1	4	8
Kidney							[1	1	1	• • •
Pelvis							1		1		1
Pancreas)			1		1	1
Mammor						1		1		2	•)
Jaw							2		•)		2
Mouth					1				1		1
Face								•2		<u>.</u>	2
Spleen						1				1	1
Brain								1		1	1
Not Stated				-2	1	5	.3	6		13	20
Totals			2	11	30	61	17	82	7.9	154	233

TABLE 37. (L.G.B. Table 1.)

ter.	NETT DEATHS BELONGING TO THE DISTRICT.	At all Ages.		(SD)	2.5.	×5.	86:81	53 14.03	9(15.40	51 13:40	red 8,586
Borough of Leicester.	BELOVGING TO		Rate per 1000 Nett * Number. Births.		166-2 3341	130-1	3119	1266 3153	2806	130.0 3051	if area cove
Borough	NETT DEATHS	Under 1 Year of Age.	Kat Number, 1000		91 926	720 18	21 122	SSS 1.5	680	629	Area of District in acres (exclusive of area covered by water
and previous Years.	TRANSFERABLE Deaths.		red f.	:	*** ****	34.5	358	34.5	S12	365	riet in acree
previou	TRANSI	Of Non-	registered m the District.	Ĉ.	÷+5	601	<u>5</u> .	X	22	011	rea of Dist by water
1911 and	TOTAL DEATHS REGISTERED IN THE	District.	Rate.	-						65-51	
ជួបករពន្ធ 1	TOTAL REGISTER	Dist	Number.		24 ∞	57.55		5.085	2601	57.99	227.242 51.481 ++1
		Nett.	Rate.	-	26.66	86:47	25.46	24·1×	23.79	55:04	
whole	BIRTHS.	Ž	Number.		5865	5534	5680	5431	533%		ss ses is per hou
istics of		1	corrected Number.							5160	n at all age bited hous of person
Vital Statistics of whole District	Donnlation	estimated to middle of each	year, revised in light of 1911 Census,		SS0,015	291.508	553,046	2.924,59.5	226.154	527,634	Total population at all ages Number of inhabited houses Average number of persons per house
			± -	- !	1906	1001	8061	6061	0161	1161	Total Num Aver

NOTE.—This Table has been filled in in accordance with the instructions given on the form supplied by the Local Government Board.

The population and rates for the years prior to 1911 have been revised in the light of the 1911 Census.

TABLE 38. (L.G.B. Table IV.)

Borough of Leicester.

INFANT MORTALITY DURING THE YEAR 1911.

Nett Deaths from stated causes at various Ages under 1 Year of Age.

CALSE OF DEATH.	Under I Week	1-2 Weeks	2.3 Weeks	3.4 Weeks	Total under 1 Month	1-3 Months	3-6 Months	6.9 Months	9 12 Months	Total Deaths Under 1 Year
All Causes (Uncertified.	125	10	21	34	223	118	136	109	93	679
Small pox										
Chicken pox									1	1
Measles							3	б	10	19
Scarlet Fever										
Diphtheria and Croup								1	•)	3
Whooping-cough					• • •	3	-5	6	.,	19
(Diarrhoa	1	1		.5	7	36	18	33	22	1 16
Enteritis		ı	1	1	:}	G .	15	6	1	34
Tuberculous Meningitis							,	1	.,	.)
					1		1		2	·)
Abdominal Tuberculosis Other Tuberculous Diseases			1			···	2 4	3	3	12
					•••	-2	4	- 0	о	12
Congenital Malformations		1			1					1
Premature Birth	70	13	1	9	96	13	3			109
Atrophy, Debility and Marasmus	28	9	10	12	59	23	15	11	ŏ	113
Atelectasis	9	1	2		9	1				10
Injury at Birth	2				2					2
Erysipelas										
Syphilis		1	1	1	3	2	1			6
Rickets								2	1	6
Meningitis (not Tuberculous)							2	2	3	7
Convulsions	7	:3		2	12	7	16	12	.5	52
Gastritis						3	2 .	1	2	8
Laryngitis									1 :	1
Bronchitis	1	1	1		3	1	12	10	5	31
Pucumonia (all forms)			1		1	6	-5	8	12	32
Suffocation (overlying)	1	2			3	6	1			10
Other Canses	13	1	3	3	23	6	1	.5	1	12

Nett Births in the Year Hegitimate, 1,989, Hillegitimate, 233,

Nett Deaths in the Year of legitimate infants, 633, illegitimate infants, 46.



MORTALITY TABLE.

CLASSIFICATION OF DEATHS IN 1911 ACCORDING TO CAUSE.

MORTALITY TABLE.

Deaths in the Borough of Leicester during the 52 Weeks ending December 31st, 1911.

	0 to 1	1 10 5	Under 5	5 to 20	130	10 40	40 to 60	01 09 10	80	80 and upwards	Over	¥.	Ages.	Total.
CLASS 1. SPECIFIC FEBRILE OR ZYMOTIC DISEASES.	Z	N A	Z	Z	N.		N F	7.	-	M F	7.		1.	
1.—Miasmatic Diseases.			* * * * * * * * * * * * * * * * * * *	•		•	0 0 0		•	0	•			
Smallp x Not known Not stated														
	12 7 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 30 30 30 30 30 30 30 30 30 30 30 30 30		w							10 H (1	2 33	36 - 36 - 11	17 6
Cough ver	OI 0	9 13	1.8	:							: 1 : H	61 1	~ i-	9
		: : H	: : H : : :		2	- : -	i : H		I	=	+	t 10	+ 0	01
Cerebro-Spinal Meningitis 2. Diarrheal Diseases.			•	<u>.</u>							<u>:</u>	:	•	H
Dysentery Diarrhœa	98	11 9	92 71						: H		· •••	6	() ()	191
3.—Malarial														
Malatid Fever 4.—Zoogenous Diseases.			• • • • • • • • • • • • • • • • • • •	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	:		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						· · · · · · · · · · · · · · · · · · ·	· Ы
iffects of Vaccination				* * * * * * * * * * * * * * * * * * *			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 1 0 0 1 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0	* * * * * * * * * * * * * * * * * * *
Splenic rever														

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			112 81 46 64 158 145 11 12	rasitic				+ 2 5 1 1 3
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